

## CSIR-Central Scientific Instruments Organisation (CSIR-CSIO) Council of Scientific and Industrial Research (CSIR) Sector 30-C, Chandigarh 160 030 http://www.csio.res.in

## Advertisement No. 05/2018

[Filling up of temporary positions against various GAP/CSIR sponsored projects]

Candidates who fulfill the under-mentioned criteria of age, educational qualifications, and experience etc. may step in for WALK-IN-INTERVIEW at 8:00 a.m. at Auditorium, CSIR-CSIO, Sector-30 C, Chandigarh on the specific dates mentioned below along with application form downloadable from our website together with testimonials of all the qualifications (original & attested copies of certificates including SC/ST/OBC/PH). Engagement will be purely on contract/temporary basis co-terminus with the completion of the project. Interested candidates must register between 9:00 AM to 12:00 Noon. Entry will not be allowed after 12:00 Noon. The details of the present available positions are as follows:-

Sr. No.	Name of the Positions & Scheme/Project Stipend				-	Essential Q	ualification	Maximum age (as on date of walk-in interview)	Age Relaxation	Date of walk-in interview		
1.	Project Algori	ne learning	RA-I OR SRF (Depending upon suitability) (RA-I: Rs. 36,000/- p.m. + HRA as per rules OR SRF: Rs. 28,000/- p.m. + HRA as per rules)	01	Upto 2020	2 <sup>nd</sup>	January,	Science/ Electr Sensing/ Environ Instrumentation with minimum 55 O B.E./B.Tech. in Co	onics/ Remote Imental Science/ or equivalent  % marks plus two in relevant field ing essential fication OR Ph.D. In Computer onics/ Remote Imental Science/ or equivalent  % marks  R Imputer Science/ mote Sensing/ Science/ or equivalent  % marks plus two in relevant field	RA-I: 35 years  SRF: 35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)  29 <sup>th</sup> August, 2018 (Wednesday)

Besidable (pri de (R)):  1) Hands on Irrage processing tools and softwares such as ENVI, geostatistics and tools such as Geographical Information System (GIS), etc.  2) Knowledge of soft computing techniques, machine learning and artificial intelligence tools and optimisation techniques such as General Color, principle of the Color of the Co							advectional avalification			
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Solution   September   Solution										
2. GAP Project hybrid nanoantennas for multifunctional sensors"  8. 2. MRA pm for 1 <sup>th</sup> 8. 2 <sup>th</sup> year.  8. 2. 8.000/- + 20% HRA pm for 3 <sup>th</sup> year (for SRF as per DST OM No. SR/S9/2-09/2012 dated 21.10.2014)]  9. GAP Project hybrid nanoantennas for multifunctional sensors"  8. 2 to year.  8. 2 to year.  9. What pm for 3 to year (for SRF as per DST OM No. SR/S9/2-09/2012 dated 21.10.2014)]  9. GAP Project hybrid nanoantennas for multifunctional sensors"  8. 2 to year.  9. What pm for 3 to year (for SRF as per DST OM No. SR/S9/2-09/2012 dated 21.10.2014)]  9. Cap Project hybrid nanoantennas for multifunctional sensors"  8. 2 to years Age relaxation as per norms/orders of Government of India Science or equivalent solution of Government of India							5) Exposure in working on Matlab,			
2. GAP Project hybrid anoantennas for multifunctional sensors"    Rs. 28,000/- + 20% HRA pm for 1st a sensors"   Rs. 28,000/- + 20% HRA pm for 3rd year (for SRF as per DST OM No. SR/59/Z-09/2012 dated 21.10.2014)]  3. GAP Project   Project the first as a sensor of intelligent Elephant Mowement Detection and Alert System near Kansrao   Description and manual properties   Description and manual properties   Description and manual properties   Description and manual properties   Description and Alert System near Kansrao   Description and Alert System near Kansrao   Description and properties   Description   Description and properties   Description   Descriptio										
2. GAP "All-dielectric and hybrid nanoantennas for multifunctional sensors"    Rs. 25,000/- + 20							7) Candidates desirous for PhD			
2. GAP Project hybrid nanoantennas for multifunctional sensors"  8. 25,000/- + 20% HRA pm for 1 <sup>rt</sup> as per DST OM No. SR/S9/Z-09/2012 dated 21.10.2014]  9. GAP Project Homeward Movement Detection and Alert System near Kansrao  1. GAP Project System near Kansrao  9. CAP Project System near Kansrao  1. GAP Project System near Kansrao  9. Captor of hybrid nanoantennas for multifunctional sensors"  9. Upto 4 <sup>th</sup> May, 2021 Essential Qualification: M.Sc. in Physics/ Applied Optics/ Material Science or equivalent swith NET/GATE qualification: NET/GATE qualification: Applied Optics/ Optoelectronics/ Photonics/ Material Science or equivalent swith NET/GATE qualification: Applied Optics/ Optoelectronics/ Photonics/ Material Science or equivalent swith NET/GATE qualification: NET/GATE qualification										
Project hybrid nanoantennas for multifunctional sensors"  WHRA pm for 1st & 2nd year.  Rs. 28,000/- + 20% HRA pm for 3rd year (for SRF as per DST OM No. SR/59/2-09/2012 dated 21.10.2014)]  3. GAP Project Project Intelligent Elephant Movement Detection and Alert System near Kansrao  Physics/ Applied Optics/ Material Science or equivalent solic or equivalent solic norms/Orders of Government of India  Physics/ Applied Optics/ Naterial Science or equivalent solic norms/Orders of Government of India  Physics/ Applied Optics/ Naterial Science or equivalent solic norms/Orders of Government of India  NET/GATE qualification NEL/M.Tech. in Applied Optics/ Optoelectronics/ Photonics/ Optoelectronics/ Photonics/ Material Science or equivalent solic norms/Orders of Government of India  NEL/M.Tech. in Applied Optics/ Optoelectronics/ Photonics/ Optoelectronics/ Optoelectronics/ Photonics/ Optoelectronics/ Optoelectronics/ Optoelectronics/ Optoelectronics	2	GAP	"All-dielectric and	JRF	01	Upto 4 <sup>th</sup> May, 2021		28 years	Age relaxation as per	30 <sup>th</sup> August, 2018
multifunctional sensors"  #RA pm for 1 <sup>st</sup> & 2 <sup>nd</sup> year.    NET/GATE qualification OR		Project	-						•	(Thursday)
Sensors"  8. 2 <sup>nd</sup> year.  Rs. 28,000/- + 20% HRA pm for 3 <sup>rd</sup> year (for SRF as per DST OM No. SR/S9/Z-09/2012 dated 21.10.2014)]  9. (a) For PA Level-II: Project Project Project Project Project Project Detection and Alert System near Kansrao  8. 2 <sup>nd</sup> year.  Rs. 28,000/- + 20% HRA pm for 3 <sup>rd</sup> year (for SRF as per DST OM No. SR/S9/Z-09/2012 dated 21.10.2014)]  9. (a) For PA Level-II: Essential Qualification: B.E./B.Tech. in Electronics/ B.E./B.Tech. in Electronics/ September, 2019  9. (A) Five years age relaxation for statutory groups and women Upending upon suitability)  1. (A) For PA Level-III: PA Level-III: September, 2019  1. (Bepending upon suitability)  2. (Bepending upon suitability)  2. (A) For PA Level-III: PA L									Government of India	
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HRA pm for 3 <sup>rd</sup> year (for SRF as per DST OM No. SR/S9/Z-09/2012 dated 21.10.2014)]  3. GAP Project   Project   Movement Detection and Alert System near Kansrao   Material Science or equivalent   Movement September, 2019   Material Science or equivalent   Movement September, 2019   Material Science or equivalent   Movement September, 2019   Material Science or equivalent   Material Science or equivalent   September   Knowledge of design and modelling of waveguide, plasmonic devices and nanophotonics.    PA Level-II: 30 years age relaxation for statutory groups and women   September, 2019   September				Rs 28 000/- + 20%						
Desirable: Knowledge of design and modelling of waveguide, plasmonic devices and nanophotonics.   Desirable: Knowledge of design and modelling of waveguide, plasmonic devices and nanophotonics.										
SR/S9/Z-09/2012 dated 21.10.2014)]  3. GAP Project Intelligent Elephant Movement Detection and Alert System near Kansrao  SR/S9/Z-09/2012 and modelling of waveguide, plasmonic devices and nanophotonics.  Upto 15 <sup>th</sup> September, 2019  September, 2019  and modelling of waveguide, plasmonic devices and nanophotonics.  (a) For PA Level-II: Essential Qualification: B.E./B.Tech. in Electronics/ Electronics & Communication/ Electronics & Instrumentation/ System near Kansrao  And modelling of waveguide, plasmonic devices and nanophotonics.  PA Level-II: 30 years five years age relaxation for statutory groups and women (Wednesday)  Wednesday)							Decirable: Knowledge of decign			
dated 21.10.2014)]  3. GAP "Pilot deployment of Project Intelligent Elephant Movement Detection and Alert System near Kansrao"    Comparison of Continuous plasmonic devices and nanophotonics.   Continuous plasmonic devices plasmonic devices plasmonic devices and nanophotonics.   Continuous plasmonic devices p										
3. GAP Project "Pilot deployment of Intelligent Elephant Movement Detection and Alert System near Kansrao"  While the project of the project of Detection and Alert System near Kansrao of the project of							plasmonic devices and			
Project Intelligent Elephant Movement (Depending upon Suitability)  Detection and Alert System near Kansrao    Note										*6
Movement Detection and Alert System near Kansrao    Movement	3	_			01	l .	· · · ———	<u>-</u>	_	
System near Kansrao   Electronics & Instrumentation/ years		, roject				September, 2013	•	, , , , ,	,	(11 curicsuuy)
				suitability)			•		(As per CSIR norms)	
				( <u>PA Level-II</u> : Rs.			•	years		

		Tigor Bosows	25 000/	I		1	Control/ Machatranics/ Computer			
		Tiger Reserve,	25,000/- p.m.				Control/ Mechatronics/ Computer			
		Dehradun"	consolidated				Science Engg. or equivalent <sup>5</sup> with			
			OR				minimum 55% marks			
			PA Level-III: Rs.							+h
			28,000/- p.m.				(b) <u>For PA Level-III:</u>			29 <sup>th</sup> August, 2018
			consolidated)				Essential Qualification:			(Wednesday)
							M.E./M.Tech. in Electronics/			
							Electronics & Communication/			
							Electronics & Instrumentation/			
							Instrumentation/ Electronics &			
							Control/ Mechatronics/ Computer			
							Science Engg./ Mobile Computing			
							Technology/ Advanced			
							Instrumentation or equivalent⁵			
							with minimum 55% marks			
							Desirable [for (a) & (b)]:			
							1) Experience in handling seismic			
							data or infrared images.			
							Knowledge of Image and Signal			
							Processing, Embedded System			
							Design and Linux.			
							2) Experience in carrying out			
							experiments and deployment in			
							field conditions.			
							3) Candidates are expected to			
							travel frequently to carry out			
							field experimentation,			
							deployment and maintenance of			
							system apart from regular			
							research and development as			
							part of the team.			
4.	CSIR	"Intelligent Systems	PA Level-II OR PA	02	Upto 31 <sup>st</sup>	March,	(a) For PA Level-II:	PA Level-II: 30	Five years age relaxation	29 <sup>th</sup> August, 2018
	Project	(IS) - Intelligent	Level-III		2020		Essential Qualification:	years	for statutory groups and	(Wednesday)
		Technologies and	(Depending upon				B.E./B.Tech. in Computer Science/		women	
		Solutions -Task 1.3:	suitability)				Information Technology/	PA level-III: 35	(As per CSIR norms)	
		Cognitive sensing					Electronics or equivalent <sup>5</sup> with	years		
		framework for vital	( <u>PA Level-II</u> : Rs.				minimum 55% marks			
		signs monitoring in	25,000/- p.m. +							
		cardiac abnormality					(b) For PA Level-III:			29 <sup>th</sup> August, 2018
		detection "	OR				Essential Qualification:			(Wednesday)
			PA Level-III: Rs.				M.E./M.Tech. in Computer			
			28,000/- p.m. +				Science/ Information Technology/			
			HRA as per rules)				Electronics or equivalent <sup>5</sup> with			
							minimum 55% marks			
							OR			
							B.E./B.Tech. in Computer Science/			

								Information Technology/ Electronics or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable [for (a) & (b)]:  1) Knowledge of signal processing, machine learning, android application, server/cloud application development.  2) Strong knowledge of object oriented programming in Java/C/C++/Python.				
5.	MLP Project	"Divya Nayan: A Personal Reading Machine for Visually Impaired"	PA Level-II OR PA Level-III (Depending upon suitability)  (PA Level-II: Rs. 25,000/- p.m. + HRA as per rules OR PA Level-III: Rs. 28,000/- p.m. + HRA as per rules)	02	Upto 2020	31 <sup>st</sup>	March,	(a) For PA Level-II: Essential Qualification: B.E./B.Tech. in Electronics & Communication/ Instrumentation/ Computer Science or equivalent <sup>5</sup> with minimum 55% marks  (b) For PA Level-III: Essential Qualification: M.E./M.Tech. in Electronics/ Computer Science/ Mobile Computing/ Cloud Computing or equivalent <sup>5</sup> with minimum 55% marks  OR B.E./B.Tech. in Electronics & Communication/ Instrumentation/ Computer Science or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable [for (a) & (b)]: 1) Knowledge of algorithms, database and cloud computing. 2) Programming knowledge of C/ C++/ Python/ Java/ PHP/ LARAVEL/ SQL and cloud-based application development. 3) Preference will be given to GATE qualified candidates.	years	335	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)  29 <sup>th</sup> August, 2018 (Wednesday)

6. MLP "Scale-up of AutoCEPH - A Level-II OR PA Level-III   Software for 2D Computerised Cephalometric Analysis as a Web    (PA Level-II: Rs.   PA Level-II: Narch 2019, extendable upto June 2019 depending upon availability of funds   Initially upto 31st   (a) For PA Level-II:   Software for 2D   Five years age responsible for statutory grows women    (A) For PA Level-II:   Software for 2D   Computer Science   Seential   Seential	_
Software for 2D (Depending upon computerised suitability)  Cephalometric Analysis as a Web (PA Level-II: Rs. (Depending upon availability of funds (PA Level-II: Rs. (PA Level-II: Rs. (Depending upon availability of funds (PA Level-II: Rs. (PA Lev	
Cephalometric Analysis as a Web (PA Level-II: Rs. upon availability of funds upon availability of with minimum 55% marks years	
Analysis as a Web (PA Level-II: Rs. funds with minimum 55% marks	
	1
Service"   25,000/- p.m. +	29 <sup>th</sup> August, 2018
HRA as per rules OR (b) For PA Level-III: Essential Qualification:	(Wednesday)
PA Level-III: Rs. M.E./M.Tech. in Computer	(Weamesday)
28,000/- p.m. + Science/ Information Technology/	
HRA as per rules) Electronics or equivalent <sup>5</sup> with	
minimum 55% marks	
OR B.E./B.Tech. in Computer Science/	
Information Technology/	
Electronics or equivalent <sup>5</sup> or MCA	
with minimum 55% marks plus two	
years experience in relevant field	
after acquiring essential	
educational qualification	
Desirable [for (a) & (b)]:	
Knowledge of Java/ JavaFX/	
Java2D/ J2EE framework/ RESTful	
Web Services framework/ SQL/	
HTML/ Java Script/ CSS/ AJAX/ jQuery/ Angular/ Maven/ SVN/	
SFTP/ Linux.	
7. MLP "Precision a) 01 PA Level-II OR 02 Upto 31 <sup>st</sup> March, (a) (i) For PA Level-II (EC/CS): PA Level-II: 30 Five years age r	exation 29 <sup>th</sup> August, 2018
Project instrumentation PA Level-III 2020 Essential Qualification: years for statutory gro	os and (Wednesday))
towards whole-slide (EC/CS)  B.E./B.Tech. in Computer Science/ women	
digital microscopy for high-throughput suitability)    digital microscopy for high-throughput suitability)    Electronics	
analytics" and Electrical & Electronics	
b) 01 PA Level-II Engg. or equivalent <sup>5</sup> with minimum	
(Mech.) 55% marks	
(PA Level-II: Rs. (ii) For PA Level-III (EC/CS):	29 <sup>th</sup> August, 2018
(PA Level-II: Rs. 25,000/- p.m. + (ii) For PA Level-III (EC/CS): Essential Qualification:	(Wednesday)
HRA as per rules  M.E./M.Tech. in Electronics/	(,
Electronics & Communication/	
PA Level-III: Rs. Instrumentation/ Mechatronics/	
28,000/- p.m. + Computer Science/ Mobile	
HRA as per rules)  Computing/ Advanced Instrumentation Engg. or	
equivalent <sup>5</sup> with minimum 55%	

						Desirable: 1) Knowledge of Signal Acquisition, Signal Filtering, Signal Processing, Machine Learning. 2) Programming knowledge of C/ C++/ Python/ MATLAB/ LabVIEW/ Linux/ Java/ Application Development.			
9.	MLP Project	"AEISS Task 2.3: Ligament Injury Assessment & Therapy Device for Motor- Rehabilitation of Soldiers (L-GEAR)"	PA Level-III  (Rs. 28,000/- p.m. + HRA as per rules)	02	Upto 31 <sup>st</sup> March, 2020	(a) For PA Level-III (EC) (01 position):  Essential Qualification:  M.E./M.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Instrumentation & Control/ Electronics & Computers or equivalent <sup>5</sup> with minimum 55% marks  OR  B.E./B.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Instrumentation & Control/ Electronics & Computers or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable: Experience in Embedded System Design, Python programming, real time control applications  (b) For PA Level-III (CS) (01 position):  Essential Qualification:  M.E./M.Tech. in Computer Science & Technology/ Information Technology/ Electronics/ Electronics & Communication/ Instrumentation or equivalent <sup>5</sup> with minimum 55% marks  OR  B.E./B.Tech. in Computer Science	35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)

								& Engg./ Computer Science & Technology/ Information Technology/ Electronics/ Electronics & Communication/ Instrumentation or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable: Experience in game development, 3D graphics, Maya, machine learning, Unity, Java, Python and dot net programming.			
10.	MLP Project	"Technological solutions for contactless alive/dead detection of victim soldier in battle field"	PA Level-II OR PA Level-III (Depending upon suitability)  (PA Level-II: Rs. 25,000/- p.m. + HRA as per rules OR PA Level-III: Rs. 28,000/- p.m. + HRA as per rules)	02	Upto 2020	31**	March,	(a) For PA Level-II: Essential Qualification: B.E./B.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Biomedical Instrumentation/ Biomedical Engg./ Mechatronics/ Mobile Computing/ Electrical/ Electrical & Electronics Engg. or equivalent <sup>5</sup> with minimum 55% marks  (b) For PA Level-III: Essential Qualification: M.E./M.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Biomedical Instrumentation/ Biomedical Engg./ Mechatronics/ Mobile Computing/ Advanced Instrumentation Engg. or equivalent <sup>5</sup> with minimum 55% marks  OR B.E./B.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Biomedical Instrumentation/ Biomedical Instrumentation/ Biomedical Instrumentation/ Biomedical Instrumentation/ Biomedical Engg./ Mechatronics/ Mobile Computing/ Electrical/ Electrical & Electronics Engg. or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential	PA Level-II: 30 years  PA level-III: 35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)  29 <sup>th</sup> August, 2018 (Wednesday)

						educational qualification  Desirable [for (a) & (b)]: Knowledge of Embedded Systems/ Analog-Digital Hardware Design/ Signal Processing/ Machine Learning/ MATLAB/ LabVIEW and related Application Development.			
11.	MLP Project	"Electromyogram (EMG) controlled Below Elbow prosthesis"	a) 02 PA Level-II OR PA Level-III (EC) (Depending upon suitability) and b) 01 PA Level-II OR PA Level-III (Mech.) (Depending upon suitability)	03	Upto 31 <sup>st</sup> March, 2020	(a) (i) For PA Level-II (EC): Essential Qualification: B.E./B.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Biomedical Instrumentation/ Biomedical Engg./ Mechatronics/ Mobile Computing/ Electrical/ Electrical & Electronics Engg. or equivalent <sup>5</sup> with minimum 55% marks	PA Level-II: 30 years  PA level-III: 35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)
			(PA Level-II: Rs. 25,000/- p.m. + HRA as per rules  PA Level-III: Rs. 28,000/- p.m. + HRA as per rules)			(ii) For PA Level-III (EC):  Essential Qualification:  M.E./M.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Biomedical Instrumentation/ Biomedical Engg./ Mechatronics/ Mobile Computing/ Advanced Instrumentation Engg. or equivalent <sup>5</sup> with minimum 55% marks  OR  B.E./B.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Biomedical Instrumentation/ Biomedical Instrumentation/ Biomedical Engg./ Mechatronics/ Mobile Computing/ Electrical/ Electrical & Electronics Engg. or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable [for (a) (i) & (ii)]: Knowledge of Embedded Systems/			29 <sup>th</sup> August, 2018 (Wednesday)

						Analog-Digital Hardware Design/ Signal Processing/ Machine Learning/ MATLAB/ LabVIEW and related Application Development.  (b) (i) For PA Level-II (Mech.): Essential Qualification: B.E./B.Tech. in Mechanical/ Mechatronics Engg./ Design or equivalent <sup>5</sup> with minimum 55% marks			30 <sup>th</sup> August, 2018 (Thursday)
						(ii) For PA Level-III (Mech.):  Essential Qualification:  M.E./M.Tech. in Mechanical/ Mechatronics Engg./ Design or equivalent <sup>5</sup> with minimum 55% marks  OR  B.E./B.Tech. in Mechanical/ Mechatronics Engg./ Design or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable [for (b) (i) & (ii)]: Knowledge of CAD design software, prototyping and robotics related application development.			30 <sup>th</sup> August, 2018 (Thursday)
12.	MLP Project	"Image-guided vascular vein visualizer: VeinViz"	PA Level-II OR PA Level-III (Depending upon suitability)  (PA Level-II: Rs. 25,000/- p.m. + HRA as per rules OR PA Level-III: Rs. 28,000/- p.m. + HRA as per rules)	02	Upto 31 <sup>st</sup> Marc 2020	h, (a) For PA Level-II: Essential Qualification: B.E./B.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Biomedical Instrumentation/ Biomedical Engg./ Mechatronics/ Mobile Computing/ Electrical/ Electrical & Electronics Engg./ Computer Science or equivalent <sup>5</sup> with minimum 55% marks  (b) For PA Level-III: Essential Qualification: M.E./M.Tech. in Electronics/ Electronics & Communication/	PA Level-II: 30 years  PA level-III: 35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)  29 <sup>th</sup> August, 2018 (Wednesday)

Instrumentation   Biomedical Instrumentation   Biomedical Engg / Mechatronics / Mobile   Advanced Instrumentation   Biomedical Engg / Mechatronics / Mobile   Advanced Instrumentation   Biomedical Engg / Computer   Science or equivalent with minimum 55% marks   OR   B.E./B.Tech   Description   Biomedical Engg / Computer   Science or equivalent with minimum 55% marks   Mobile   Computing / Bectical   Bectronics   Biomedical Engg / Computer   Science or equivalent with minimum 55% marks   Bust two   Vivian   Biomedical Engg / Computer   Science or equivalent with minimum 55% marks   Bust two   Vivian   Biomedical   Engg / Computer   Science or equivalent with minimum 55% marks   Bust two   Vivian   Biomedical   Engg / Computer   Science or equivalent with minimum 55% marks   Bust two   Vivian   Biomedical   Engg / Computer   Science or equivalent with minimum 55% marks   Bust two   Vivian   Biomedical   Engg / Computer   Science or equivalent with minimum 55% marks   Bust two   Vivian   Biomedical   Engg / Computer   Science or equivalent with minimum 55% marks   Bust two   Vivian   Biomedical   Engg / Computer   Science or equivalent with minimum 55% marks   Bust two   Vivian   Biomedical   Engg / Computer   Science or equivalent with minimum 55% marks   Bust two   Vivian   Biomedical   Engg / Computer   Science or equivalent with minimum 55% marks   Bust two   Science or equivalent with minimum 55% marks   Bust two   Science or equivalent with minimum 55% marks   Bust two   Science or equivalent with minimum 55% marks   Bust two   Science or equivalent with minimum 55% marks   Bust two   Biomedical   Engg / Computer   Science or equivalent with minimum 55% marks   Bust two   Science or equivalent with minimum 55% marks   Bust two   Science or equivalent with minimum 55% marks   Bust two   Science or equivalent with minimum 55% marks   Bust two   Science or equivalent with minimum 55% marks   Bust two   Science or equivalent with minimum 55% marks   Bust two   Science or equivalent with minimum 55% marks   Bust t	<del></del>	<u> </u>							
after acquiring essential	Project e	electrical energy using geared AC (R synchronous motors to charge batteries of mobile phones"  (T	Rs. 28,000/- pm + IRA as per rules)  This post is for SIR-CSIO Delhi	01	larch,	Instrumentation/ Biomedical Engg./ Mechatronics/ Mobile Computing/ Advanced Instrumentation Engg./ Computer Science or equivalent <sup>5</sup> with minimum 55% marks  OR  B.E./B.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Biomedical Instrumentation/ Biomedical Instrumentation/ Biomedical Engg./ Mechatronics/ Mobile Computing/ Electrical/ Electrical & Electronics Engg./ Computer Science or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable [for (a) & (b)]:  1) Knowledge of Machine Vision/ Image Processing/ Embedded Vision Systems/ Signal Processing/ Soft Computing and Machine Learning, etc.  2) Programming experience in C++/ Python/ OpenCV/ MATLAB and related Application Development.  Essential Qualification:  M.E./M.Tech. in Automotive/ Mechanical/ Production/ Industrial Engg. or equivalent <sup>5</sup> with minimum 55% marks  OR  B.E./B.Tech. in Automotive/ Mechanical/ Production/ Industrial Engg. or equivalent <sup>5</sup> with minimum 55% marks plus two	35 years	for statutory groups and women	

						COMSOL/ AutoCAD or any other designing software will be given preference.  2) GATE/NET qualified candidates will be preferred.			
14.	GAP Project	"Metal Organic Framework (MOF) based fluorescence-SPR dual mode sensing platform for explosive detection"	JRF  [Rs. 25,000/- + 20 % HRA pm for 1 <sup>st</sup> & 2 <sup>nd</sup> year.  Rs. 28,000/- + 20% HRA pm for 3 <sup>rd</sup> year (for SRF as per DST OM No. SR/S9/Z-09/2012 dated 21.10.2014)]	01	Initially upto 9 <sup>th</sup> July 2019, extendable maximum upto 9 <sup>th</sup> July 2021 depending upon availability of funds	Essential Qualification: M.E./M.Tech. in Material Science/ Nanoscience & Nanotechnology/ Chemical Engg. or equivalent <sup>5</sup> OR M.Sc. in Physics/ Chemistry/ Applied Physics or equivalent <sup>5</sup> with NET/GATE qualification  Desirable: Work experience in the field of nanomaterials, thin film, self-assembled monolayer, optical sensing.	28 years	Age relaxation as per norms/orders of Government of India	30 <sup>th</sup> August, 2018 (Thursday)
15.	CSIR Project	"Safety and Security of Vital Installations – Vertical 4: Instrumentation for Border Security Management"	PA Level-II OR PA Level-III (Depending upon suitability)  (PA Level-II: Rs. 25,000/- p.m. + HRA as per rules OR PA Level-III: Rs. 28,000/- p.m. + HRA as per rules)	08	Upto 31 <sup>st</sup> March, 2020	(a) For PA Level-II: Essential Qualification: B.E./B.Tech. in Computer Science/ Information Technology/ Electronics/ Electronics & Communication/ Instrumentation/ Instrumentation & Control/ Electrical/ Electrical & Electronics Engg. or equivalent <sup>5</sup> with minimum 55% marks  Desirable: Knowledge of Programming, Database Management, Image and Signal Processing, Machine Learning, Embedded System Design, Data Communication.	PA Level-II: 30 years  PA level-III: 35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)
						(b) For PA Level-III: Essential Qualification: M.E./M.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Instrumentation & Control/ Mechatronics/			29 <sup>th</sup> August, 2018 (Wednesday)

						Computing/ Electrical/ Advanced Instrumentation Engg. or equivalent <sup>5</sup> with minimum 55% marks  OR  B.E./B.Tech. in Computer Science/ Information Technology/ Electronics/ Electronics & Communication/ Instrumentation/ Instrumentation/ Instrumentation & Control/ Electrical/ Electrical & Electronics Engg. or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable: Knowledge of Image Processing and Computer Vision, Signal Processing, Machine Learning, LabVIEW, MATLAB, Embedded System Design, Wireless Communication, Programming.			th
16.	CSIR Project	"Intelligent Systems(IS) – Intelligent Technologies and Solutions – Task 3.1: AI based Seismic Signal analytics"	PA Level-II OR PA Level-III (Depending upon suitability)  (PA Level-II: Rs. 25,000/- p.m. + HRA as per rules OR PA Level-III: Rs. 28,000/- p.m. + HRA as per rules)	02	Upto 31 <sup>st</sup> March, 2020	(a) For PA Level-II: Essential Qualification: B.E./B.Tech. in Computer Science/ Information Technology/ Electronics/ Electronics & Communication or equivalent <sup>5</sup> with minimum 55% marks  (b) For PA Level-III: Essential Qualification: M.E./M.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Mechatronics/ Computer Science/ Mobile Computing/ Electrical/ Advanced Instrumentation Engg. or equivalent <sup>5</sup> with minimum 55% marks  OR B.E./B.Tech. in Computer Science/ Information Technology/ Electronics/ Electronics &	PA Level-II: 30 years  PA level-III: 35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)  29 <sup>th</sup> August, 2018 (Wednesday)

						Communication/ Instrumentation/ Electrical/ Electrical & Electronics Engg. or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable [for (b)]: Knowledge of Image Processing and Computer Vision, Signal Processing, LabVIEW, MATLAB, Embedded System Design, Database Management, Programming.			A
17.	GAP Project	"Nanosculptured thin films based enhanced plasmonic phenomena and their applications for clinical diagnostics and water sensing"	PA Level-II  (Rs. 25,000/- p.m. + HRA as per rules)	01	Initially till 31 <sup>st</sup> January, 2019, extendable upto six more months depending upon availability of funds	Essential Qualification: B.E./B.Tech. in Electronics & Communication Engg. or equivalent <sup>5</sup> with minimum 55% marks  OR  M.Sc. in Physics with minimum 55% marks.	30 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)
18.	MLP Project	"AEISS FTT: Online Monitoring System for Detection of Night-Time Poor Visibility Areas in Urban Settings"	02 PA Level-II and 01 PA Level-III  (PA Level-II: Rs. 25,000/- p.m. + HRA as per rules  PA Level-III: Rs. 28,000/- p.m. + HRA as per rules)	03	Upto 31 <sup>st</sup> March, 2020	(a) For PA Level-II (CS): Essential Qualification: B.E./B.Tech. in Computer Science & Engg. / Information Technology or equivalent <sup>5</sup> with minimum 55% marks  Desirable: Experience in Image Processing, Java, Python and dot net programming.  (b) For PA Level-II (EC): Essential Qualification: B.E./B.Tech. in Electronics/ Electronics & Communication Engg./ Instrumentation/ Instrumentation & Control/ Electronics & Computers or equivalent <sup>5</sup> with minimum 55% marks	PA Level-II: 30 years  PA level-III: 35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)  29 <sup>th</sup> August, 2018 (Wednesday)

						I			1
						<b>Desirable:</b> Experience in Embedded System Design, Wireless Communication, Python and Java programming.			
						(c ) For PA Level-III (EC):  Essential Qualification:  M.E./M.Tech. in Electronics/ Electronics & Communication Engg./ Instrumentation/ Instrumentation & Control/ Electronics & Computers or equivalent <sup>5</sup> with minimum 55% marks  OR  B.E./B.Tech. in Electronics/ Electronics & Communication Engg./ Instrumentation/ Instrumentation & Control/ Electronics & Computers or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification			29 <sup>th</sup> August, 2018 (Wednesday)
						Desirable: Experience in Embedded System Design, Wireless Communication, Python and Java programming.			
19	MLP Project	"Design & Development of Airfield Ground Lighting Systems (AGLS)"	PA Level-II and PA Level-III  (PA Level-II: Rs. 25,000/- p.m. + HRA as per rules	02	Upto 31 <sup>st</sup> March, 2020	(a) For PA Level-II: Essential Qualification: B.E./B.Tech. in Mechanical Engg. or equivalent <sup>5</sup> with minimum 55% marks	PA Level-II: 30 years  PA level-III: 35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	30 <sup>th</sup> August, 2018 (Thursday)
			PA Level-III: Rs. 28,000/- p.m. + HRA as per rules)			<b>Desirable:</b> Experience in the field of Mechanical Design and knowledge of CAD/CAE tools.			
						(b) For PA Level-III: Essential Qualification: M.E./M.Tech. in Optics & Optoelectronics/ Applied Optics or equivalent <sup>5</sup> with minimum 55% marks			30 <sup>th</sup> August, 2018 (Thursday)
						OR			

						M.Sc. (Tech.) Engineering Physics or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable: Experience in the design of Illumination/ Image Optics.			
20.	CSIR Project	"Food and Consumer Safety Solution (FOCUS), WP 2.1: Development of packaging integrated sensors for fruit juices"	PA Level-II  (Rs. 25,000/- + HRA as per rules)	01	Upto 31 <sup>st</sup> March, 2020	Essential Qualification: B.E./ B.Tech in Electronics/ Electronics & Communication/ Instrumentation/ Computer Science or equivalent <sup>5</sup> with minimum 55% marks  Desirable:  1) Theoretical calculations, problem formulation and solving skills, data analysis and interpretation, Machine Learning and Mobile App programming.  2) GATE/NET qualified candidates will be preferred.	30 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)
21.	CSIR Project	"Food and Consumer Safety Solution (FOCUS), WP 3.3: System for detection of polyaromatic hydrocarbon in edible oil"	PA Level-II  (Rs. 25,000/- +  HRA as per rules)	02	Upto 31 <sup>st</sup> March, 2020	(a) For PA Level-II (EC) (01 position):  Essential Qualification: B.E./ B.Tech. in Electronics/ Instrumentation/ Electronics & Instrumentation/ Electronics & Control/ Instrumentation & Control or equivalent with minimum 55% marks  Desirable [for (a)]: 1) Experience in hands-on circuit realization and testing, Embedded System Design. 2) GATE/NET qualified candidates will be preferred.	30 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)
						(b) For PA Level-II (Chem.) (01 position):  Essential Qualification: M.Sc. in Chemistry/ Biochemistry/ Biotechnology/ Food Science or equivalent <sup>5</sup> with minimum 55%			30 <sup>th</sup> August, 2018 (Thursday)

	1	T		1						1
							marks			
							Desirable [for (b)]:  1) Experience in analytical techniques, sample handling, extraction, etc.  3) GATE/NET qualified candidates will be preferred.			
22.	CSIR Project	"Food and Consumer Safety Solution (FOCUS), <u>WP 3.2:</u> Rancidity indicator strip for edible oils"	PA Level-II  (Rs. 25,000/- + HRA as per rules)	02	Upto 31 <sup>st</sup> 2020	March,	Essential Qualification: M.Sc. in Chemistry/ Food Science or equivalent <sup>5</sup> with minimum 55% marks  Desirable:  1) Experience in analytical techniques, sample handling, theoretical chemistry.  2) GATE/NET qualified candidates will be preferred.	30 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	30 <sup>th</sup> August, 2018 (Thursday)
23.	CSIR Project	"Food and Consumer Safety Solution (FOCUS), WP 5.3: Opto/ electrochemical techniques for detection of pesticides in food matrix"	PA Level-III  (Rs. 28,000/- + HRA as per rules)	02	Upto 31 <sup>st</sup> 2020	March,	Essential Qualification:  M.E./M.Tech. in Nanotechnology/ Biotechnology/ Biochemistry/ Nano-biotechnology/ Food Biotechnology/ Food Technology or equivalent <sup>5</sup> with minimum 55% marks  OR  M.Sc./B.E./B.Tech. in Chemistry/ Biochemistry/ Biotechnology/ Immunology/ Chemical Science/ Food Technology/ Food Biotechnology/ Food Chemistry/ Microbiology/ Bio-nanotechnology or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable: GATE/NET qualified candidates will be preferred.	35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	30 <sup>th</sup> August, 2018 (Thursday)

24.	CSIR	"Food and Consumer	a) 01 PA Level-II	02	Upto	31 <sup>st</sup>	March,	(a) (i) For PA Level-II (Chem.):	PA Level-II:	30	Five years age relaxation	30 <sup>th</sup> August, 2018
	Project	Safety Solution	OR PA Level-III		2020			Essential Qualification:	years		for statutory groups and	(Thursday)
		(FOCUS), WP 5.4:	(Chem.)					B.E./B.Tech. in Material Science/			women	
		Optical VOC sensor	(Depending					Nanoscience & Nanotechnology/	PA level-III:	35	(As per CSIR norms)	
		for monitoring fruit	upon suitability)					Chemical Engg. or equivalent⁵ with	years			
		ripening and food	and					minimum 55% marks				
		spoilage"	b) 01 PA Level-III					OR				
			(EC)					M.Sc. in Physics/ Chemistry/				
								Applied Physics or equivalent <sup>5</sup> with				
			( <u>PA Level-II</u> : Rs.					minimum 55% marks				
			25,000/- p.m. +					400				aath a saaca
			HRA as per rules					(ii) For PA Level-III (Chem.):				30 <sup>th</sup> August, 2018
								Essential Qualification:				(Thursday)
			PA Level-III: Rs.					M.E./M.Tech. in Material Science/				
			28,000/- p.m. + HRA as per rules)					Nanoscience & Nanotechnology/				
			nka as per rules)					Chemical Engg. or equivalent <sup>5</sup> with minimum 55% marks				
								OR				
								M.Sc. in Physics/ Chemistry/				
								Applied Physics or equivalent <sup>5</sup> with				
								minimum 55% marks plus two				
								years experience in relevant field				
								after acquiring essential				
								educational qualification				
								(b) For PA Level-III (EC):				29 <sup>th</sup> August, 2018
								Essential Qualification:				(Wednesday)
								M.E./M.Tech. in Electronics/				
								Instrumentation/ Electronics &				
								Control/ Instrumentation &				
								Control or equivalent⁵ with				
								minimum 55% marks				
								OR				
								B.E./B.Tech. in Electronics/				
								Instrumentation/ Electronics &				
								Control Instrumentation &				
								Control or equivalent <sup>5</sup> with				
								minimum 55% marks plus two years experience in relevant field				
								after acquiring essential				
								educational qualification				
								educational qualification				
								Desirable [for (a) & (b)]:				
								NET/GATE qualified candidates will				
								be preferred.				

25	CCID	"Food and Consumer	01 PA Level-II and	02	Linto	31 <sup>st</sup>	March,	(a) For PA Level-II:	DA Lovel III	20	Five years ago relayation	30 <sup>th</sup> August, 2018
25.	CSIR Project	Safety Solution	02 PA Level-III	03	Upto 2020	21	iviarcii,	Essential Qualification:	PA Level-II: years	30	Five years age relaxation for statutory groups and	(Thursday)
	Project	(FOCUS), <u>WP 4.2</u> :	UZ PA LEVEI-III		2020			M.Sc./B.E./B.Tech. in Food Science	years		women	(Tiluisuay)
		Electrostatic Coating	(PA Level-II: Rs.					& Technology/ Food Processing/	PA level-III:	35	(As per CSIR norms)	
		System for Fruits	25,000/- p.m. +					Food Engg./ Food Safety &	years	33	(ris per esircinorms)	
		and Vegetables"	HRA as per rules					Nutrition/Nutrition/ Biotechnology	Years			
			,					or equivalent <sup>5</sup> with minimum 55%				
			PA Level-III: Rs.					marks				
			28,000/- p.m. +									
			HRA as per rules)					Desirable [for (a)]:				
								1) Strong background of				
								theoretical calculations, problem				
								formulation and solving skills,				
								data analysis and interpretation.				
								2) Experience in the area of				
								electrostatic coating principles				
								and techniques, thin film				
								coatings to fruits and				
								vegetables, non-toxic and				
								biodegradable polysaccharide				
								and carbohydrate based				
								composite films and coatings,				
								electrostatic edible coatings and				
								its applications, sample				
								handling, statistics and				
								optimization techniques.				
								3) GATE/NET qualified candidates will be preferred.				
								22 6				
								(b) For PA Level-III (01 position):				29 <sup>th</sup> August, 2018
								Essential Qualification:				(Wednesday)
								M.E./M.Tech. in Electronics/				
								Instrumentation/ Electronics &				
								Instrumentation/ Electronics &				
								Control/ Instrumentation &				
								Control or equivalent <sup>5</sup> with				
								minimum 55% marks				
								OR				
								B.E./B.Tech. in Electronics/				
								Instrumentation/ Electronics &				
								Instrumentation/ Electronics & Control/ Instrumentation &				
								Control or equivalent <sup>5</sup> with				
								minimum 55% marks plus two				
								years experience in relevant field				
								after acquiring essential				
								educational qualification				
$\sqcup$			l		1			Euucationai quaiilication				

	M.E./M.Tech. in Electronics/ Instrumentation/ Electronics & Instrumentation/ Electronics & Control/ Instrumentation & Control or equivalent <sup>5</sup> with minimum 55% marks  OR B.E./B.Tech. in Electronics/ Instrumentation/ Electronics & Instrumentation/ Electronics & Control/ Instrumentation & Control/ Instrumentation & Control or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable [for (c)]:	29 <sup>th</sup> August, 2018 (Wednesday)
	1) Candidates of management courses with engineering background having experience	

						in business development & marketing.  2) Experience in research/incubation / product designing/managing projects and leadership abilities/ product development and facilitating the products business plan & development/ socio-economic impact analysis etc.  3) GATE/NET qualified candidates will be preferred.			
26.	GAP Project	"Design, development and supply of HUD Mk-2 units for LCA Air Force (AF) Mk-2 and LCA Navy Mk-2 Aircrafts"	01 PA Level-III and 02 PA Level-III  (PA Level-III: Rs. 25,000/- p.m. + HRA as per rules  PA Level-III: Rs. 28,000/- p.m. + HRA as per rules)	03	Upto 31 <sup>st</sup> December, 2018	(a) For PA Level-II: Essential Qualification: B.E./B.Tech. in Mechanical Engg. or equivalent <sup>5</sup> with minimum 55% marks.  Desirable [for (a)]: Experience in the field of Tool design and operation of CNC machines for Precision Optics Fabrication.	PA Level-II: 30 years  PA level-III: 35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	30 <sup>th</sup> August, 2018 (Thursday)
						(b) (i) For PA Level-III (Mat. Sc.): Essential Qualification: M.E./M.Tech. in Material Science & Nanotechnology or equivalent <sup>5</sup> with minimum 55% marks OR B.E./B.Tech. in Material Science & Nanotechnology or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification			30 <sup>th</sup> August, 2018 (Thursday)
						(ii) For PA Level-III (EC): Essential Qualification: M.E./M.Tech. in Embedded System/ Electronics & Communication/ Instrumentation/ Electronics & Instrumentation/ Advance Instrumentation/ Electrical & Electronics/			29 <sup>th</sup> August, 2018 (Wednesday)

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									Electronics & Control System or			
									equivalent <sup>5</sup> with minimum 55%			
									marks			
									OR			
									B.E./B.Tech. in Electronics &			
									Communication/ Instrumentation/			
									Electronics & Instrumentation/			
									Electrical & Electronics/			
									Electronics & Control System or			
									equivalent <sup>5</sup> with minimum 55%			
									marks plus two years experience in			
									relevant field after acquiring			
									essential educational qualification			
1 -	27.	CSIR	"Drone based	a) 01 PA Level-II	03	Upto	31 <sup>st</sup>	March,	(a) (i) For PA Level-II (CS):	PA Level-II: 30	Five years age relaxation	29 <sup>th</sup> August, 2018
	27.	Project	Electromagnetic and	OR PA Level-III	03	2020	31	iviai cii,	Essential Qualification:	years	for statutory groups and	(Wednesday)
		rioject	Magnetic System	(CS) (Depending		2020			B.E./B.Tech. in Computer Science/	years	women	(wednesday)
			DREAM"	upon suitability)					Information Technology or	PA level-III: 35	(As per CSIR norms)	
			DREAM	and					equivalent <sup>5</sup> with minimum 55%		(As per CSIK HOTHIS)	
				b) 02 PA Level-II					marks	years		
									marks			
				OR PA Level-III					(11) = (11) (22)			aath a leasa
				(EC) (Depending					(ii) For PA Level-III (CS):			29 <sup>th</sup> August, 2018
				upon suitability)					Essential Qualification:			(Wednesday)
									M.E./M.Tech. in Computer			
				( <u>PA Level-II</u> : Rs.					Science/ Information Technology/			
				25,000/- p.m. +					Electronics or equivalent <sup>5</sup> with			
				HRA as per rules					minimum 55% marks			
									OR			
				PA Level-III: Rs.					B.E./B.Tech. in Computer Science/			
				28,000/- p.m. +					Information Technology/			
				HRA as per rules)					Electronics or equivalent <sup>5</sup> with			
									minimum 55% marks plus two			
									years experience in relevant field			
									after acquiring essential			
									educational qualification			
									-			
									Desirable [for (a) (i) & (ii)]:			
									Excellent programming knowledge			
									in C++/Java/VHDL/Verilog/Python.			
									GATE qualified candidates will be			
									preferred.			
									(b) (i) For PA Level-II (EC):			29 <sup>th</sup> August, 2018
									Essential Qualification:			(Wednesday)
									B.E./B.Tech. in Electrical/			(-veanesday)
									Instrumentation/ Electronics or			
									equivalent <sup>5</sup> with minimum 55%			
									marks			
					l				IIIaIKS			

28.	GAP Project	"Design and Development of Optical Gun Sight (OGS) for Dornier Aircraft"	01 PA Level-I and 01 PA Level-I: Rs. 15,000/- p.m. + HRA as per rules  PA Level-II: Rs. 25,000/- p.m. + HRA as per rules)	02	Initially for 6 months, extendable upto 30 <sup>th</sup> April, 2020 depending upon availability of funds	(ii) For PA Level-III (EC): Essential Qualification: M.E./M.Tech. in Electrical/ Power Electronics/ VLSI/ Mechatronics/ Instrumentation/ Electronics or equivalent <sup>5</sup> with minimum 55% marks  OR  B.E./B.Tech. in Electrical/ Instrumentation/ Electronics or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable [for (b) (i) & (ii)]: Knowledge of signal processing, embedded system, FPGA, Data Acquisition System, PCB development. GATE qualified candidates will be preferred.  (a) For PA Level-I: Essential Qualification: Diploma in Mechanical or equivalent <sup>5</sup> with minimum 55% marks  (b) For PA Level-II: Essential Qualification: B.E./B.Tech. in Mechanical/ Optics or equivalent <sup>5</sup> with minimum 55% marks  Desirable [for (b)]: Experience in the field of design and fabrication of mechanical/ sub-systems with CAD/ CAE and lighting software.	PA Level-I: 28 years PA level-II: 30 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)  30 <sup>th</sup> August, 2018 (Thursday)  30 <sup>th</sup> August, 2018 (Thursday)
29.	GAP Project	"Publication of Directory of Scientific Instruments and Component Manufactured in India"	PA Level-II  (Rs. 25,000/- p.m. + HRA as per rules)	01	Upto 31 <sup>st</sup> March, 2020	Essential Qualification: M.Sc./B.E./B.Tech. in Computers/ IT or equivalent <sup>5</sup> with minimum 55% marks  Desirable: 1) Extensive knowledge in .Net Technology (C#,VB.Net, ASP.Net, MVC)/PHP Frameworks.	30 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)

									Experience of Database Design in SQL Server/ PostgreSQL/MySQL.			
30.	MLP Project	"Design Development Indigenized Lyophiliser preservation Indian Fruits Vegetables"	and of for of and	05 PA Level-I and 05 PA Level-II  (PA Level-I: Rs. 15,000/- p.m. + HRA as per rules  PA Level-II: Rs. 25,000/- p.m. + HRA as per rules)	10	Upto 2020	31 <sup>st</sup>	March,	(a) (i) For PA Level-I (Mech./Ref. & Air Cond.) (03 positions):  Essential Qualification: Diploma in Mechanical Engg. / Refrigeration & Air Conditioning or equivalent with minimum 55% marks  Desirable: Hands-on experience in Refrigeration & Air Conditioning, Thermal Science, CAD modeling, HVAC, Mechanical Design.	years	Five years age relaxation for statutory groups and women (As per CSIR norms)	30 <sup>th</sup> August, 2018 (Thursday)
									(ii) For PA Level-I (EC) (02 positions): Essential Qualification: Diploma in Electronics/ Electronics & Communication Engg. / Instrumentation / Instrumentation & Control / Electronics & Computers / Mechatronics or equivalent <sup>5</sup> with minimum 55% marks			29 <sup>th</sup> August, 2018 (Wednesday)
									Desirable: Experience in handling Electronic equipment and components, Signal Conditioning, Embedded System, Control & Automation, PLC programming, PID Controller, LabVIEW, Matlab, multisim, etc.  (b) (i) For PA Level-II (Mech./Ref. & Air Cond.) (02 positions): Essential Qualification:  B.E./B.Tech. in Mechanical Engg. /			30 <sup>th</sup> August, 2018 (Thursday)
									Refrigeration & Air Conditioning or equivalent <sup>5</sup> with minimum 55% marks  Desirable: Hands-on experience in Refrigeration & Air Conditioning, Thermal Science, CAD modeling, HVAC, Mechanical Design.			

							(ii) For PA Level-II (EC) (03 positions): Essential Qualification: B.E./B.Tech. in Electronics/ Electronics & Communication Engg. / Instrumentation / Instrumentation & Control / Electronics & Computers / Mechatronics or equivalent <sup>5</sup> with minimum 55% marks  Desirable: Experience in handling Electronic equipment and components, Signal Conditioning, Embedded System, Control & Automation, PLC programming, PID Controller, LabVIEW, Matlab, multisim, etc.			29 <sup>th</sup> August, 2018 (Wednesday)
31.	MLP Project	"Design and Development of Enhanced Vision System for Military Surface Transport Vehicles"	PA Level-III  (Rs. 28,000/- pm + HRA as per rules)	01	Upto 31 <sup>st</sup> 2020	March,	Essential Qualification:  M.E./M.Tech. in Electronics/ Electronics & Communication/ Electronics & Instrumentation or equivalent <sup>5</sup> with minimum 55% marks  OR  B.E./B.Tech. in Electronics/ Electronics & Communication/ Electronics & Communication/ Electronics & Instrumentation or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable: Knowledge of Embedded System Design and Analog-Digital Hardware Design.	35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	29 <sup>th</sup> August, 2018 (Wednesday)
32.	MLP Project	"Design and Development of Bamboo Structures (Bamboo/Composite Sections & Joints)"	PA Level-II (Rs. 25,000/- pm + HRA as per rules)	02	Upto 31 <sup>st</sup> 2020	March,	Essential Qualification: B.E./B.Tech. in Mechanical Engg. or equivalent with minimum 55% marks  Desirable: Knowledge of CAD modeling, Dynamic Simulation, FEA, STAAD, Mechanical Fabrication.	30 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	30 <sup>th</sup> August, 2018 (Thursday)

33.	GAP	"Motor	SRF	01	Upto 31 <sup>st</sup> August,	(a) For SRF (EC):	32 years	Age relaxation as per	29 <sup>th</sup> August, 2018
33.	Project	Rehabilitation of	J. C.	01	2020 (tentative)	Essential Qualification:	32 years	norms/orders of	(Wednesday)
	1 Toject	Children with	(Rs. 28,000/- p.m.		2020 (tentative)	M.E./M.Tech. in Electronics/		Government of India	(Weanesday)
		Cerebral Palsy using	+ HRA as per			Electronics & Communication/		Government of mala	
		Virtual Intelligence"	rules)			Instrumentation/ Instrumentation			
		and the same of th				& Control/ Electronics &			
						Computers or equivalent <sup>5</sup> plus two			
						years of research experience in			
			(A.V.)			relevant field after acquiring			
						essential educational qualification			
						OR			
						B.E./B.Tech. in Electronics/			
						Electronics & Communication/			
						Instrumentation/ Instrumentation			
						& Control/ Electronics &			
						Computers or equivalent <sup>5</sup> with			
						GATE/NET qualification plus two			
						years of research experience in			
						relevant field after acquiring			
						essential educational qualification			
						(b) For SRF (CS):			29 <sup>th</sup> August, 2018
						Essential Qualification:			(Wednesday)
						M.E./M.Tech. in Computer			(**************************************
						Science/ Computer Science			
						Technology/ Information			
						Technology or equivalent <sup>5</sup> plus			
						two years of research experience			
						in relevant field after acquiring			
						essential educational qualification			
						OR			
						B.E./B.Tech. in Computer Science/			
						Computer Science Technology/			
						Information Technology or			
						equivalent <sup>5</sup> with GATE/NET			
						qualification plus two years of			
						research experience in relevant			
						field after acquiring essential educational qualification			
						educational qualification			
						Desirable [for (a) & (b)]:			
						Experience in LabVIEW, Embedded			
						System, Game Development			
						platforms, Unity/ Java/ C#			

34.	GAP Project	"Molybdenum Disulphide Nanotemplates Based Electrochemical Nanosensor for Food Toxins AFB1 and AFM1"	JRF  [Rs. 25,000/- pm + HRA as per rules for 1 <sup>st</sup> & 2 <sup>nd</sup> year.  Rs. 28,000/- pm + HRA as per rules for 3 <sup>rd</sup> year (for SRF as per DST OM No. SR/S9/Z-09/2012 dated 21.10.2014)]	01	Upto 14 <sup>th</sup> August, 2021 (tentative)	Essential Qualification: M.Sc./B.E./B.Tech. in Chemistry/ Chemical Engg./ Nanotechnology/ Biotechnology or equivalent <sup>5</sup> with NET/GATE qualification OR M.E./M.Tech. in Chemical Engg./ Nanotechnology/ Biotechnology or equivalent <sup>5</sup>	28 years	Age relaxation as per norms/orders of Government of India	30 <sup>th</sup> August, 2018 (Thursday)
35.	GAP Project	"Machine for performing double volume exchange transfusions (DVET)"	JRF  [Rs. 25,000/- pm + HRA as per rules for 1 <sup>st</sup> & 2 <sup>nd</sup> year.  Rs. 28,000/- pm + HRA as per rules for 3 <sup>rd</sup> year (for SRF as per DST OM No. SR/S9/Z-09/2012 dated 21.10.2014)]  (A.V.)	02	Upto 31 <sup>st</sup> August, 2020 (tentative)	(a) For JRF (EC) (01 position): Essential Qualification: M.E./M.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Mechatronics or equivalent <sup>5</sup> OR B.E./B.Tech. in Electronics/ Electronics & Communication/ Instrumentation/ Mechatronics or equivalent <sup>5</sup> with GATE/NET qualification  Desirable [for (a)]: Knowledge of advanced microcontrollers, sensors, signal processing, embedded system design, programming knowledge in C/C++, hands-on circuit realization and testing.	28 years	Age relaxation as per norms/orders of Government of India	29 <sup>th</sup> August, 2018 (Wednesday)
						(b) For JRF (Mech.) (01 position): Essential Qualification: M.E./M.Tech. in Mechanical/ Mechatronics or equivalent <sup>5</sup> OR B.E./B.Tech. in Mechanical/ Mechatronics or equivalent <sup>5</sup> with			30 <sup>th</sup> August, 2018 (Thursday)

						GATE/NET qualification			
						Desirable [for (b)]: Experience in fabrication and design of mechanical systems with CAD/CAE software. Knowledge of working with various sensors.			
36.	CSIR Project	"Design & Development of HUD for Passenger Aircraft"	PA Level-III  (Rs. 28,000/- pm + HRA as per rules)  (A.V.)	03	For a period of two years (tentative)	(a) For PA Level-III (Mech.): Essential Qualification: M.E./M.Tech. in Mechanical or equivalent <sup>5</sup> with minimum 55% marks  OR  B.E./B.Tech. in Mechanical or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable [for (a)]: Experience in the field of design and fabrication of mechanical/ avionics systems/ sub-systems with CAD/CAE software.	35 years	Five years age relaxation for statutory groups and women (As per CSIR norms)	30 <sup>th</sup> August, 2018 (Thursday)
						(b) For PA Level-III (EC): Essential Qualification: M.E./M.Tech. in Electronics or equivalent <sup>5</sup> with minimum 55% marks  OR B.E./B.Tech. in Electronics or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable [for (b)]: Experience in			29 <sup>th</sup> August, 2018 (Wednesday)
						the field of design and fabrication of electronic PCB, circuits, etc.  (c) For PA Level-III (Optics): Essential Qualification: M.E./M.Tech. in Optics/ Optical Instrumentation or equivalent <sup>5</sup> with minimum 55% marks			30 <sup>th</sup> August, 2018 (Thursday)

						OR  M.Sc./B.E./B.Tech. in Optics/ Optical Instrumentation or equivalent <sup>5</sup> with minimum 55% marks plus two years experience in relevant field after acquiring essential educational qualification  Desirable [for (c)]: Experience in the field of design of optical components and optical design software.			
37.	GAP Project	"Hand Held Advanced Moisture Meter for Made Tea"	SRF  (Rs. 28,000/- pm + HRA as per rules)  (A.V.)	02	For a period of two years (tentative)	Essential Qualification:  M.E./M.Tech. in Instrumentation/ Computer Science/ Electronics/ Electrical or equivalent <sup>5</sup> plus two years of research experience in relevant field after acquiring essential educational qualification OR  B.E./B.Tech. in Instrumentation/ Computer Science/ Electronics/ Electrical or equivalent <sup>5</sup> with GATE/NET qualification plus two years of research experience in relevant field after acquiring essential educational qualification	32 years	Age relaxation as per norms/orders of Government of India	29 <sup>th</sup> August, 2018 (Wednesday)
						Desirable:  1) Hands-on with latest microcontroller platforms including Arduino, PIC, MSP430, 8/16 bit etc., expertise in embedded C.  2) Analog and digital circuit designing, simulations, modelling, fabrication, testing and application product development.  3) Experience in developing codes in high level languages such as Python, VC++, etc. For R-Pi, DSPs-processors and similar high end hardware platforms.  4) Exposure in working on Matlab, R, R-PI, multivariate software,			

Tatalyseancies		83		etc.  5) Knowledge of soft computing techniques, machine learning and artificial intelligence tools and optimisation techniques such as Genetic Algorithm (GA), Particle Swam Optimisation (PSW), etc.  6) Research experience in design and development of embedded system, Electronics/ Design and Fabrication Instrumentation and Control, etc.  7) Knowledge of Computational Software/ OrCAD/ PCB Design/ MATLAB/ Optimization Techniques & Data Analysis, Hardware and Electronic Design Tools, etc.  8) Willingness to travel/field work.  9) Candidates desirous to pursue PhD will be preferred.		
Total vacancies		65	_ <del></del>	<b></b>		

## A.V.: Anticipated Vacancy

Other Benefits: Accommodation (subject to availability), food facility and other amenities in campus.

## Please note:

- 1. The performance of the candidates selected against all the above mentioned positions will be reviewed every 6 months and based on the performance as per the project mandate, further extension will be provided from time to time.
- 2. The candidates who have already served CSIR-CSIO or any other lab / institute of CSIR as any Project Assistant / Project Fellow / JRF (in contract R&D projects) / Research Associate etc. for a total period of 5 years or more are not eligible for these engagements. The candidates who have served for a period less than 5 years will have tenure upto remaining period till completion of five years.
- 3. **Medical Facilities** for self will be provided through CSIR-CSIO Dispensary only to the extent available as per rules. This will be limited to self only and not for family members/dependents.
- 4. **Reservation:** As regards reservation, if all things are equal, SC/ST/OBC/PH candidates may be given preference over General candidates so as to ensure their representation.
- 5. In case a large number of candidates turn up for Walk-in-interview, Selection/Screening Committee will have discretion to shortlist the candidates for interview based on written exam or percentage of marks. In respect of equivalence clause in Essential Qualifications, if a candidate is claiming a particular qualification as equivalent qualification for recruitment as per the requirement of advertisement, then the candidate is required to produce order/letter in this regard, indicating the Authority (with number and date) under which it has been so treated otherwise the Application is liable to be rejected.
- 6. List of selected candidates will be displayed on website. In addition, general panel will also be drawn for future requirements and it will be valid for one year.
- 7. The selected candidates are expected to join within fifteen days from the date of receiving offer of appointment, after completion of pre-appointment formalities like medical examination and character verification etc.

- 8. The selected candidates will have to deposit an amount equivalent to Fifteen Day's stipend as a Security Deposit (Refundable) with CSIR-CSIO, at the time of joining.
- 9. CSIR-CSIO reserve the right to cancel or withdraw the award in case of any discrepancy found, in the candidature of any selected candidate at any stage.
- 10. CSIR-CSIO reserves the right not to fill up a particular position, if it so desires. The number of vacancies indicated above may vary at the time of actual selection.
- 11. No TA will be paid to the candidates for attending the interview.
- 12. All the above positions in CSIR-CSIO are purely temporary contractual engagement co-terminus with the projects.
- 13. Other terms & conditions will be governed as per guidelines issued by the funding agency/CSIR for the engagement of above Project Staff as amended from time to time.

**Controller of Administration**