

We invite applications for the position of a junior research fellow (JRF) at DAA, TIFR, Mumbai. This position is to work on the mechanical design, development, and assembling of the optical bench and optics mount of a new spectrograph being built at TIFR. The applicant will work closely with mechanical engineers at Department of Astronomy and Astrophysics (DAA, TIFR, Mumbai) as well as with Dr. Joe Ninan.

Number of posts: 1

Post	Qualification	Job Requirement	Age Limit and Fellowship	Nature and Period of Post
Junior Research Fellow (JRF)	<p>Essential:</p> <ol style="list-style-type: none"> 1. BE/BTech/ME/MTech in Mechanical Engg. with a minimum of 60% marks. M.Sc. students with good knowledge on mechanical engineering and computer aided design can also apply. 2. Qualified through UGC-CSIR NET or any National level Ph.D entrance tests in Physics/Electronics, such as, JEST/TIFR-GS final written test/GATE. 3. Significant experience in computer aided design software like Solidworks or FeeCAD. 4. Experience in designing and modelling precision mechanisms. <p>Desirable:</p> <ol style="list-style-type: none"> 1. Interest in astronomy 2. Experience in designing optics mounts. 3. FEA analysis and thermal analysis. 	<p>At TIFR/DAA we are building a new kind of multi-object optical to near infrared spectrograph for conducting the largest young stellar object spectroscopy survey in the world. This instrument, TIFR-MOONS, will be a second generation instrument on India's largest 3.6 m optical telescope in Devasthal, ARIES, Nainital.</p> <p>The JRF will a work on the mechanical design, development, and assembling of the optical bench and optics mount of this new spectrograph.</p> <p>JRF will work under the engineers in our DAA group and Central workshop to design, conduct FEA and thermal analysis of the instrument. They will get hands-on experience in cryo design and precision manufacturing.</p>	<p>Age: Preferably below 28 years on 01/01/2022</p> <p>Fellowship : Rs. 31000/- (for JRF) + HRA Rs. 35000/- (for SRF) + HRA</p>	<p>Initially, for a period of one year. Extendable for a maximum period of another two years based on performance .</p> <p>The total duration is three years – 1 year as JRF and 2 years as SRF</p>

Send a detailed CV including educational qualifications (in the format given below), additional qualifications like qualifying national level entrance tests, publications, awards; a one page write up of research/project work experience (a brief write up of one page). CV should include date of birth, present affiliation and occupation, address, contact number, and email ID. Also, give the names and email addresses of two referees, who are familiar with your recent academic activities/progress.

Degree	Year	University/College	Subjects	Marks obtained	Remarks
				Passing Class	

10th Std					
12th Std					
BE/BTech/ Bsc					
ME/MTech /Msc					

Send the application to Dr. Joe Ninan via email to [joe.ninan @ tifr.res.in](mailto:joe.ninan@tifr.res.in) with the subject line as "Application for JRF position". Applications should be received before 31st August 2022 for full consideration.

Shortlisted candidates may be asked for an in-person or online interview. We will inform the shortlisted candidates to request for the recommendation letters. TIFR is an equal opportunity employer and all eligible candidates are encouraged to apply.

Please don't hesitate to contact Dr. Joe Ninan if you have any questions or need additional information.