



Issue date : 22th November 2022

Advertisement No. 2022/04

Last date: 7th December 2022

Online applications are invited for following positions at Extreme Photonics Innovation Centre (EPIC), jointly established between UK's Central Laser Facility (CLF) and India's Tata Institute of Fundamental Research (TIFR) to develop the control systems for the next-generation high powered laser accelerators. For more details please visit <https://epic-innovation.org/job-opportunities/>.

Sr. No.	Name of the Post	No. of Vacancies
1	Project Software Controls Engineer	Five (05) (UN RESERVED)
2	Project Software Engineer (Front End Developer)	Two (02) (UN RESERVED)
3	Project Software Engineer (Full Stack .Net developer)	Two (02) (UN RESERVED)
4	Project Data Engineer	Two (02) (UN RESERVED)

The successful candidates will undergo necessary training if needed in the UK and the collaborative work will be done at TIFR, Hyderabad. The post holders will also be encouraged to engage with instrumentation/experiments at the high power laser labs in TIFR.

1. Project Software controls Engineer: Five (05) Posts - Temporary for three years and will be extended based on performance and project extension.

Age : Age is not a criterion but preferably below 45 years.

Essential Qualifications: Bachelor's Degree in Technology/Engineering/Engineering Physics/Physics/Computer Science with minimum 60% marks in aggregate or its equivalent CGPA.

Essential Experience:

- Demonstrable experience in a modern programming language e.g. C, C++ or Python.
- Linux operating system experience.

Desirable Experience:

- Experience with Distributed Control System (EPICS) would be an advantage, however full training will be provided.
- A good understanding of scientific instruments (e.g. Oscilloscopes, Power supplies, delay generators etc).
- Good understanding of modern Software Development life cycles.
- Experience with Version control systems.

Additional Requirements:

- Must be able to travel to the UK occasionally for training at short notice
- Must be able to work overtime on a reasonably regular basis, and occasionally on weekends, to meet deadlines where necessary

Salary: Rs.40,000/- - Rs.1,00,000/- (consolidated). Salary will not be constraint and fair and accommodating negotiations will be available to a deserving candidate.

Job Description: The main role for a successful candidate would be to develop laser control systems, which include motor control, vacuum and gas systems. This diverse array of devices will suit a person with a wide range of programming experience in hardware and instrumentation control. The laser control system is managed through a distributed control system called [EPICS \(Experimental Physics and Industrial Control System\)](#).

“Candidates are requested to provide one (1) page cover letter describing their past experience, CV and contact details of two references or two reference letters to verify prior work experience”.

2. Project Software Engineer (Front End Developer): Two (02) Posts- Temporary for three years and will be extended based on performance and project extension.

Age : Age is not a criterion but preferably below 45 years.

Essential Qualifications: Bachelor's Degree in Technology /Engineering/Engineering Physics/Physics/Computer Science with minimum 60% marks in aggregate or its equivalent CGPA.

Essential Experience:

- Proven commercial work experience in designing, building and maintaining highly reusable applications using HTML, CSS and JavaScript.
- Understanding of layout aesthetics such responsive design (CSS grid, flexbox, media queries, etc.)
- Experience in creating and maintaining user-interface designs, wireframes and mockups

Desirable Experience:

- Working experience of developing front-end applications in ASP.NET, Blazor, etc.
- Strong understanding of modern software development life cycles such as requirement gathering, planning, software design & development, testing and deployment.
- Experience with a Git-based workflow (branches, issues, code review, pull requests)

Additional Requirements:

- Must be able to travel to the UK occasionally for training at short notice
- Must be able to work overtime on a reasonably regular basis, and occasionally on weekends, to meet deadlines where necessary

Salary: Rs.40,000/- - Rs.1,00,000/- (consolidated). Salary will not be constraint and fair and accommodating negotiations will be available to a deserving candidate.

Job Description:

- The main role for a successful candidate is to design and develop the user-interface for our laser control system using front-end technologies like HTML, CSS, JavaScript, Blazor, etc. As a front-end developer, you will ensure that the end-user get an optimized user experience by improving the usability, responsiveness, and visual appeal of our applications.
- The successful candidate will need to demonstrate a passion for delivering creative and responsive software solutions that are both aesthetically pleasing and functional. We expect you to be a tech-savvy professional, who stays up-to date with best practices and emerging trends in user-interface design and development.

“Candidates are requested to provide one (1) page cover letter describing their past experience, CV and contact details of two references or two reference letters to verify prior work experience”.

3. Project Software Engineer (Full Stack .Net Developer): Two (02) Posts-

Temporary for three years and will be extended based on performance and project extension.

Age : Age is not a criterion but preferably below 45 years.

Essential Qualifications: Bachelor's degree in Technology/Engineering/Engineering Physics/Physics/Computer Science with minimum 60% marks in aggregate or its equivalent CGPA.

Essential Experience:

- Demonstrable commercial experience with C# (ASP.NET Core, Blazor, WPF, WinForm)

- Demonstrable experience of working with front-end languages such as HTML, CSS, JavaScript.
- Good understanding of modern software development life cycles such as requirement gathering, planning, software design & development, testing and deployment.
- Good understanding of software design patterns, such as MVVM.
- Good understanding of Object-Oriented principles, such as SOLID

Desirable Experience:

- Experience of using different database technologies, e.g. MS SQL Server, MySQL, MariaDB, MongoDB, etc.
- Working knowledge of Web API and REST API.
- Working knowledge of writing unit tests.
- Experience with a Git-based workflow (branches, issues, code review, pull requests)

Additional Requirements:

- Must be able to travel to the UK occasionally for training at short notice
- Must be able to work overtime on a reasonably regular basis, and occasionally on weekends, to meet deadlines where necessary

Salary: Rs.40,000/- - Rs.1,00,000/- (consolidated). Salary will not be constraint and fair and accommodating negotiations will be available to a deserving candidate.

Job Description:

- The main role for a successful candidate is to develop high-performance desktop & web applications for laser control systems using .NET/C# (Blazor, WPF), HTML, CSS, JavaScript, etc.
- As a Full Stack Developer, you are expected to have transferable experience building software applications and an understanding of complete software development cycle.

“Candidates are requested to provide one (1) page cover letter describing their past experience, CV and contact details of two references or two reference letters to verify prior work experience”.

4. Project Data Engineer: Two (02) Posts - Temporary for three years and will be extended based on performance and project extension.

Age : Age is not a criterion but preferably below 45 years.

Essential Qualifications: Bachelor's degree in Technology/Engineering/Engineering Physics/Physics/Computer Science with minimum 60% marks in aggregate or its equivalent CGPA.

Essential Experience:

- Demonstrable experience in Python programming languages

Desirable Experience:

- Experience with Rust programming language
- Experience with Javascript and React framework
- Familiarity with Apache Kafka or similar streaming data platforms
- Understanding of Grafana or similar data visualization tools
- Experience in scientific data handling
- Experience with a Git-based workflow (branches, issues, code review, pull requests)

Additional Requirements:

- Must be able to travel to the UK occasionally for training at short notice
- Must be able to work overtime on a reasonably regular basis, and occasionally on weekends, to meet deadlines where necessary.

Salary: Rs.40,000/- - Rs.1,00,000/- (consolidated). Salary will not be constraint and fair and accommodating negotiations will be available to a deserving candidate.

Job Description:

- The main role for a successful candidate is to handle streaming and storing of large volume of scientific data in real-time. You are expected to provide design solutions for redundancy, scalability, data formatting and service automation. As a data engineer, you will also involve in monitoring, analyzing and visualization of the data.
- We expect you to be a tech-savvy professional, who stays up-to date with best practices and emerging trends in data streaming and storage.

“Candidates are requested to provide one (1) page cover letter describing their past experience, CV and contact details of two references or two reference letters to verify prior work experience”.

General Information:

1. Higher starting salary could be considered for deserving candidates.
2. **Applications from the candidates will be accepted ONLY ON-LINE through the link <https://epic-innovation.org/job-opportunities/>**
3. **On-line applications must be submitted by 7th December 2022**
4. The candidates are required to produce following original documents with copies at the time of written test/interview:
 - a. Printout of online application form.
 - b. Identity proof (Aadhar Card/ Election Card / Pan Card / Passport / Driving License).

- c. Date of birth / Proof of age.
 - d. Educational Qualification (all mark sheets and certificates).
In case Universities/Board award letter grades/CGPA/OGPA, the same will have to be indicated as equivalent percentage of marks as per the norms adopted by the University / Board. In the absence of the same, the candidature will not be considered (While submitting original documents for verification, the candidates will have to produce the norms of the University / Board for conversion of grades/CGPA/OGPA to equivalent percentage of marks.
 - e. Experience Certificate/s.
 - f. Conduct certificates from two respectable persons.
 - g. A copy of latest CV
5. Outstation candidates called for recruitment process will be paid single First class (not air-conditioned) / III Tier AC train fare for the journey by the shortest route from the nearest railway station of their place of residence to the place of written test/interview on the production of photocopies of onward and return journey tickets.
- “If you travel by air, you are required to purchase air tickets ONLY from 1) M/s Balmer Lawrie & Company Limited (BLCL) 2) M/s Ashok Travels & Tours (ATT) 3) Indian Railways Catering and Tourism Corporation Ltd. (IRCTC). BOOKING THROUGH THE WEBSITE OF AIRLINES IS NOT ALLOWED. The air-fare for such candidates will be restricted to the eligible return train fare on production of tickets and boarding passes”.
6. The Institute reserves the right to restrict the number of candidates for written test/interview to reasonable limit on the basis of qualifications and experience higher than the minimum prescribed in the advertisement. Mere fulfilling the essential and desirable qualifications will not entitle an applicant to be called for written test/interview.
7. Before applying for the post, the candidate should ensure that they fulfill the eligibility and other criteria. Recruitment authorities would be free to reject application not fulfilling the requisite criteria, at any stage of recruitment, and if erroneously appointed, such candidates shall be liable to be terminated from service if appointed.
8. More vacancies may also be filled through this advertisement. The Institute reserves the right not to fill any/some posts herein advertised. Canvassing in any form shall disqualify the candidate.
9. The Institute reserves the right to conduct written test, interviews either online or in-person.
