

The Centre for Science of Student Learning (www.cssl.in) is a Section 8 Non-Profit with a mission to improve the way our children learn by building capacity to measure learning through high quality assessments & conducting research into the science of student learning.

CSSL strives to be a truly meritocratic environment where innovation and entrepreneurship are valued and celebrated. We supply and implement new ideas to the education sector, drawing from a deep base of knowledge that cuts across multiple fields like cognitive and affective sciences, psychometrics, gender perspectives, statistics, mathematical modelling and economics.

RESIDENT ENGINEER POSITIONS

1. **Full Stack Engineer** who will be responsible for designing and implementing high quality software solutions in the field of education. FSE should be able to define and develop tools, products and solutions for CSSL.
2. **Back End Engineer** who can assist FSE in designing the back end for our tools and products
3. **Front End Engineer** who can assist FSE in designing the front end for our tools and products

ROLES AND RESPONSIBILITIES

- Responsible for the design of IT applications. Define, drive and deliver on time with quality through all stages of SDLC.
- Should be able to analyse feature requirements and lead the technical activities for the feature design and development in addition to individual contribution.
- Should be able to analyse client issues and provide resolution/workaround
- Lead and participate in Design Reviews and Code Inspections
- Should have good communication skills to work with cross-functional teams.
- In-house tools and systems for increasing efficiency and productivity.
- Lead implementation of solutions that will improve the current product performance, quality, processes and standards
- Researching and understanding the Science of Learning, participate in subject based research projects, by reading pedagogy related research work and analysing student response data.

REQUIREMENTS

- B.Tech/M.Tech in Computer Science and Engineering (CSE)/ Electrical Engineering or comparable degree from IITs/NITs/IIITs/BITS or any other Tier 1/II institute. Strong foundation in computer science or equivalent experience is a must.
- More than three years (for FSE) and More than one year (for Back and Front End Engineers) of hands-on experience in software development
- Experience in in web based technologies like Python, PHP, MySQL, Java Script, CSS, HTML 5, MongoDB, iOS/Android developments etc.
- Exceptional analytical and technical skills
- Experience in Web, Cloud concepts and architectures.
- Penchant for algorithms and mathematics.

- Excellent English written and oral communications is a must.
- Focused on team success. Works well in a team environment. Assists other team members in all areas.
- Strong analytical and problem-solving skills.
- Provides technical advice to other departments within the organization.
- Mentors and guides technical team members.
- Understanding of the Indian education system.

DESIRABLES

- Knowledge of System administration tools: (For FSE, Back End and Front End Engineer)
 - Basic shell scripting
 - Cloud computing: AWS, Rackspace, Google Cloud, etc.
 - Background processing: Gearman, Redis
 - Search: Elasticsearch, Sphinx, Solr
 - Caching: Varnish, Memcached, APC / OpCache
 - Monitoring: Nagios
- Knowledge of Web development tools: (For FSE and Front End Engineer)
 - Version control: Git, Mercurial, SVN
 - Virtualisation: VirtualBox, Vagrant, Docker
- Experience in Back-end tech (For FSE and Back End Engineer)
 - Web servers: Apache, Nginx
 - Programming language: Python/PHP/NodeJS/AngularJS, Ruby
 - Database: MySQL, MongoDB, Cassandra, Redis, SQL / JSON
- Experience in emerging browser technologies: HTML5, SVG, CSS3, Web GL, web workers, web sockets, SPDY, App Cache, etc. and browser internals: JavaScript engines, layout and rendering engines

Interested can email their cover letter and resume to careers@cssl.in .

Females are encouraged to apply. To learn more about CSSL, log on to <http://www.cssl.in/>