# Indian Institute of Technology Gandhinagar
## Advertisement for Junior Research Fellow (Position 2)
## in the area of
## *Embedded system design for tunable diode laser-based fire detection system*

IT Gandhinagar invites applications for **1** research and development position at the junior research fellow (JRF) level in the area of embedded system design for tunable diode laser-based fire pre-emption system. The work involves developing an embedded system that will control a semiconductor laser.

**Eligibility Criteria:**
- BTech degree + valid GATE or M.Tech in Electronics Engineering or Engineering Physics
- Strong motivation to take-up research ventures at the intersection of hardware and software

**Required background/skills:**
- Expertise in digital signal processing
- Knowledge of programming Digital Signal Processors (DSPs) such as Texas Instruments DSP boards
- Expertise in designing embedded systems for data acquisition and/or motor control and/or robotics
- Experience of using popular platforms such as Intel Arduino, Raspberry Pi
- Proficiency in a programming language like C/C++ and Matlab

**Preferred background/skills:**
- Knowledge of Android application development
- Knowledge of instrumentation techniques will be a distinct advantage
- Interest in photonics, lasers fiber optics will also be an added advantage

**Compensation and term of position:**
Compensation will be 25,000/- per month (consolidated salary). Initial appointment will be for 1 year with the possibility of renewal for up to two more years depending on performance.

**How to apply:**

Those interested are requested to download the application package from http://www.iitgn.ac.in/job.htm, e-mail a **single zipped file** containing (1) Curriculum vitae highlighting expertise, (2)List of referees and their contact details and (3) a 1 page statement of purpose outlining the skill sets which you will bring and apply in the research area to arup@iitgn.ac.in. Please note that your **single zipped file** should be named as **<your last name>_jrf2_iitgn.zip and the subject line of the email should be "UAY-JRF2-IITGN"**. Candidates shortlisted for the interview will be informed and they are to submit the hardcopies of all these documents, if they are selected. Incomplete application forms i.e. resumes only without the application form and applications without statement of purpose will be ignored.

**Deadline:** The last date for application is **September 7, 2016**.

For any queries regarding the research area, please feel free to contact Prof. Arup Lal Chakraborty at arup@iitgn.ac.in