



NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA – 769 008(ODISHA)
SPONSORED RESEARCH, INDUSTRIAL CONSULTANCY & CONTINUING EDUCATION

Advt No: NITR/SR/BM-EC-017/319

Dated: 09.08.2018

WALK-IN INTERVIEW

Applications are invited for the **Walk-in Interview** on prescribed format for the following assignment in a purely time bound research project undertaken in the Department of Biotechnology and Medical Engineering (BM) and Electronics Communication Engineering (EC) of the Institute. The Walk-in Interview will be conducted on **30th August, 2018**, at **11:00 am.** in the **Department of Biotechnology & Medical Engineering (BM).**

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| 1. | Name of the Temporary Post | Junior Research Fellow (1 post) |
| 2. | Name of the Research Project | Development of pH based portable arsenic bio-sensor by exploiting arsenite oxidizing bacteria |
| 3. | Name of the Sponsoring Agency | DST, Govt. of India |
| 4. | Tenure of the Project | 02 years |
| 5. | Tenure of the Assignment | 02 years |
| 6. | Job Description | The project student (likely to be converted as a PhD student) will be involved in detail characterization of arsenite oxidizing bacteria, study of arsenic transformation in bacterial system, Engineered strain construction, process optimization, design of pH measurement system based on analog integrated circuit and implementation of different circuit blocks like differential amplifier, instrumentation amplifier, filter, ADC etc. to form a complete ASIC. |
| 7. | Consolidated monthly Fellowship i) 1 st Year ii) 2 nd Year | Rs. 25,000.00 Rs. 28,000.00 Along with 20% HRA (if staying outside) Based on the performance of the research work the fellowship will be converted in to Institute fellowship as per Institute rule. |
| 8. | Essential Qualifications and experience | B. Tech with GATE/M. E./M. Tech degree in Biotech with specialization in Biotechnology,/ Environmental Engineering/ Environmental Biotechnology, Electronics/ Electrical/ Instrumentation/ with specialization in VLSI/ Instrumentation or similar fields with above 65% (7 CGPA) of marks. |
| 9. | Desirable Qualifications/ Experiences | Experience on Molecular Biology, Environmental Biotechnology and Microbiology is desirable for Biotech background students. Experience on analog circuit design and Cadence |

