

## Call Letter from the Department of Mechanical Engineering

Advt. No. IITDh/Admin/Rectt. /08/2018-2019

Dt.: 05/09/2018

Job No. **08/002 Executive Technical Assistant (ME)**

Dear Applicant,

With reference to your application to the above said post, we are pleased to call you for the selection process at IIT Dharwad on 3<sup>rd</sup> of November 2018. Note that you were short-listed based on the details you provided in the application form. IIT Dharwad will verify your credentials and you may be liable for disqualification in case of any discrepancies between the details entered in the application form and the original marks-cards/certificates.

### **You are shortlisted based on the criteria as per the advertisement:**

- Age limit of 30 years as on 5<sup>th</sup> of October 2018
- M.Tech/M.E. in any specialisation in the Department of Mechanical Engineering with Minimum 60% marks or equivalent CGPA (in the qualifying degree)

### **Time and Date for the Selection Procedure**

- **Date: 3<sup>rd</sup> of November 2018 (Saturday)**
- **Reporting Time: 8:00 AM**
- Address: IIT Dharwad, Near High Court, Dharwad 580011 (Karnataka, India)
- You may find the directions to the campus at <http://iitdh.ac.in/contact.php>

### **Application should bring:**

- Photo ID
- Passport size photograph
- Filled Application Form
- Photocopy of all your educational documents (certification and mark sheets)
- **Scientific Calculator**

### **Selection Procedure**

- An objective written test will be conducted
- The shortlisted candidates from this objective written test may be called for second round of selection process on the same day

## Syllabus for the Selection Process

- **Engineering Mathematics:** Linear algebra, calculus, vector calculus, Laplace transform, ODE, PDE, probability, numerical methods
- **Engineering Design:** Engineering mechanics, mechanics of materials, theory of machines, machine design, vibration
- **Manufacturing:** Engineering materials, casting, forming and joining processes, machining and machine tool operations, metrology and inspection, computer integrated manufacturing, production planning and control, inventory control, operations research
- **Fluid-thermal:** Fluid mechanics, heat transfer, thermodynamics, I.C. engines, refrigeration and air conditioning, turbomachinery
- **Engineering Graphics:** projection of points, lines, planes, auxiliary planes, solids, section of solids, development of surfaces, isometric view, orthographic view, perspective view
- **Related to UG Lab experiments:** mechanical workshop, strength of materials, theory of machines, manufacturing process, fluid mechanics, mechanical measurements, heat transfer, applied thermodynamics