

## **Department of Mechanical Engineering**

### **National Institute of Technology Karnataka, Surathkal**

#### **01 ANSYS-ENTUPLE Postdoctoral Fellowship Positions**

National Institute of Technology Karnataka (NITK) invites applications for the **Postdoctoral fellowship (PDF)** positions in the department of mechanical engineering. These positions are sponsored by **ANSYS-ENTUPLE**.

**Number of Positions: 01**

**Remuneration:** Rs 50,000/month (with contingency Rs 30,000/year. HRA is not provided under this scheme)

**Application Last Date:** **3<sup>rd</sup> Feb 2023**

**Fellowship Duration:** 01 Year (extendable subjected to availability of funds)

A detailed description for **each** PDF position is given in next page

## **Postdoctoral Fellowship**

<b>Project Title /Theme</b>	Thermal Management of Lithium-ion Batteries
Faculty (with email)	Dr. N. Gnanasekaran, Assistant Professor, Department of Mechanical Engineering, NITK Surathkal Email: <a href="mailto:gnanasekaran@nitk.edu.in">gnanasekaran@nitk.edu.in</a>
Essential Qualifications	BE/BTech in Mechanical Engineering MTech in Thermal Engineering/Heat Power or equivalent PhD in Mechanical Engineering
Required Skills	Essential Skills: (i) Prior knowledge and hands-on experience on transient heat transfer analysis using ANSYS-Fluent. (ii) Prior knowledge of geometry modelling (Spaceclaim/Workbench) and meshing Fluent-Mesher, ICEM-CFD, Workbench. (iii) Prior experience of using/editing UDF, UDS.  Desirable Skills: (i) Experience of designing battery thermal management systems. (ii) Understanding of Electro-Chemistry of electric batteries. (iii) Experience of adjoint solver will be surplus
How to Apply	The candidates opting for <b>PDF</b> should email their CV to <a href="mailto:gnanasekaran@nitk.edu.in">gnanasekaran@nitk.edu.in</a> with subject line <b>Postdoctoral Application for PDF</b>