**INTERNSHIP POSITION**

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| **Topic** | **Machine learning and Machine vision with Python in thermodynamic and fluid mechanics research** |
| **Specification/**  **Programme**  (min. 100 words) | This academic internship is oriented towards the practical implementation of open-source machine learning and computer vision tools within applied research in thermodynamics and fluid mechanics, with a particular focus on power engineering systems. Participants will develop competencies in scientific programming using Python, including its application in computational analysis, experimental system control, and machine design relevant to research methodologies. |
| **Time period** | Summer 2025, Winter 2025 |
| **Length of the traineeship - number of months** | 3 |
| **Supervisor´s name and contact** | Ing. Ondřej Burian  Technical University of Liberec  Faculty of Mechanical Engineering  Department of Power Engineering  Studentská 1402/2  46117 Liberec  ondrej.burian@tul.cz |
| **Administrative Contact** | Marcela Valkova, [marcela.valkova@tul.cz](mailto:marcela.valkova@tul.cz) |
| **Documents required** | CV, Letter of motivation, Transcript of Records |