**INTERNSHIP POSITION**

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| **Topic** | **Designer and calculation of power systems with Python language tools** |
| **Specification/**  **Programme**  (min. 100 words) | This internship is focused on the practical design and optimization of power systems and their equipment (heat exchangers, pumps, compressors, heat pumps ...) by tools based on Python language. It will introduce, the practical application of these tools during the internship, and in the next step, these tools will be applied to design real power systems like a heat pump, steam power cycle atc. Basic knowledge of power systems and thermomechanics is required. Intermediate knowledge of CAD design or technical calculations and simulation in Python language is required. |
| **Time period** | Summer 2024, Winter 2024 |
| **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 |