**INTERNSHIP POSITION**

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| **Topic**  | **Acoustic Insulation of Sound-Absorbing Screens** |
| **Specification/****Programme**(min. 100 words) | The aim of this internship is to delve into issues related to acoustic insulation, with a particular focus on the development and testing of sound-absorbing screens. The internship aims to provide practical experience and research opportunities under the guidance of experts in the fields of acoustics and materials science.Description:The internship will primarily involve research, design, and testing of samples to improve their acoustic insulation properties. Participants will have the opportunity to work in a laboratory environment, actively participating in various stages of development, testing, and analysis of results. Additionally, interns will conduct literature reviews, participate in team discussions, and contribute to the development of experimental methodologies.Tasks:* Conduct literature reviews to understand the current state of materials and techniques for acoustic insulation.
* Conduct laboratory experiments to evaluate the acoustic insulation performance of developed materials.
* Analysis of experimental data and preparation of reports summarizing results and recommendations.
* Collaboration with team members to generate ideas, solve problems, and propose improvements in the design and production processes of screens.

Requirements:* Interest in acoustics and sound insulation technologies.
* Analytical skills and attention to detail.
* Ability to work independently as well as in a team.

Location:The internship will take place at the Geopolymer Composites Laboratory (FS KMT).Benefits:* Gain practical experience in the development and testing of sound insulation materials.
* Contribute to research on modern acoustic practices and sound engineering.
* Work alongside experienced researchers and specialists.
* Development of technical and research skills useful in future academic or professional careers.
* Possibility of publication or presentation of research findings at scientific conferences or in scientific journals.
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| **Time period** |  |
| **Length of the traineeship - number of months** | The duration of the internship can be flexibly adjusted, typically ranging from 2 to 6 months, depending on agreements between the participant and the organizing institution. |
| **Supervisor´s name and contact**  | Ing. Katarzyna Los, Ph.D.Technical University of LiberecFaculty of Mechanical EngineeringDepartment of Machine Parts and MechanismStudentská 1402/246117 LiberecKaterina.Los@tul.cz  |
| **Administrative Contact** | Marcela Valkova, marcela.valkova@tul.cz  |
| **Documents required** | CV, Letter of motivation, Transcript of Records |