**INTERNSHIP POSITION**

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| **Topic**  | Corrosion behaviour of alloys (for example iron aluminides, steels, nickel alloys, cobalt alloys) in molten glass (especially lead-free glass)  |
| **Specification/****Programme**(min. 100 words) | The research consists of carrying out corrosion tests of metal alloys in different types of molten glass, analysing the corrosion attack of alloys and description of corrosion mechanism of alloys in molten glass.The content of the research task is going to focus on the analytic part of research and can be divided into the following points:1. evaluation of corrosion kinetics in molten glass;2. corrosion attack evaluation of tested alloys (metallographic analysis, using light optical microscopy - digital microscope, scanning electron microscopy with EDS);3. discussion of corrosion attack and mechanism also based on available publications.The results will be summarised in the final report and presentation. |
| **Time period** |  |
| **Length of the traineeship - number of months** | 1 month  |
| **Supervisor´s name and contact**  | doc. Adam HotařPetra Pazourková Prokopčáková, Ph.D.Technical University of LiberecFaculty of Mechanical EngineeringDepartment of Material ScienceStudentská 1402/246117 Liberecadam.hotar@tul.czpetra.prokopcakova@tul.cz |
| **Administrative Contact** | Marcela Válková, marcela.valkova@tul.cz  |
| **Documents required** | CV, Letter of motivation, Transcript of Records |