

<b>Codice</b>	<b>CZ-PRAHA10</b>
<b>Destinazione</b>	Praga – Repubblica Ceca
<b>Università</b>	Czech Technical University in Prague
<b>Posti a bando - mesi</b>	2
<b>Lingua / livello richiesto</b>	B2
<b>Attestato Lingua richiesta*</b>	Attestato Ateneo
<b>Livello di studi**</b>	Laurea Magistrale
<b>Area</b>	Costruzione di Macchine – Ingegneria Meccanica
<b>Link</b>	<a href="https://www.cvut.cz/en/faculty-of-mechanical-engineering">https://www.cvut.cz/en/faculty-of-mechanical-engineering</a>
<b>Note</b>	

\* Certificazione internazionale oppure Attestato Ateneo

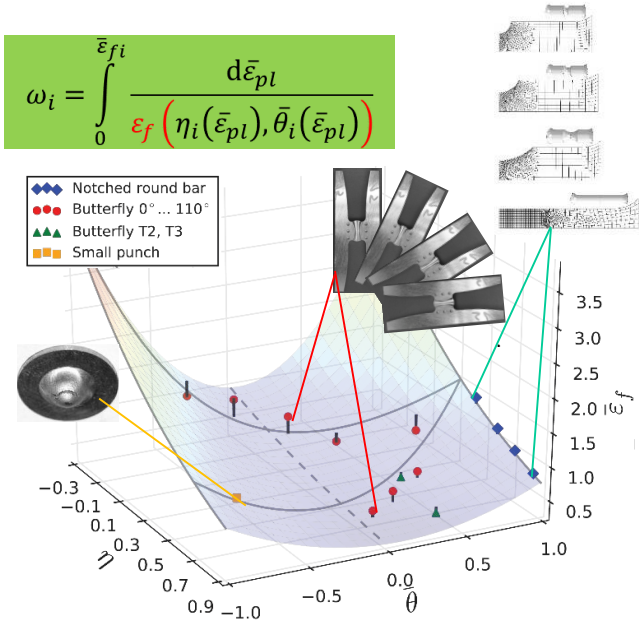
\*\* Laurea Triennale, Laurea Magistrale, Dottorato

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<b>Livello di studi</b>	Laurea Magistrale
<b>CCS Interessati</b>	Ingegneria Meccanica
<b>Attività</b>	Preferibilmente tesi. Temi: Ductile Material modeling – Partial effects in fatigue prediction – 3D printed materials
<b>Link a centri di ricerca</b>	<a href="https://www.cvut.cz/en/faculty-of-mechanical-engineering">https://www.cvut.cz/en/faculty-of-mechanical-engineering</a>
<b>Note particolari/commenti</b>	



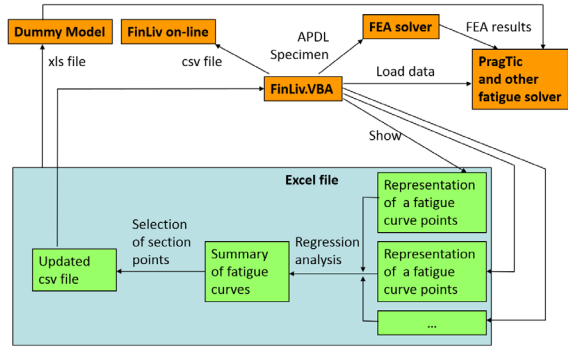
**1 Ductile materials - identification of phenomenological models**  
**Models describing fracture after massive plastic straining.**  
**Modeling of fractures using FEA**



We have experimental results and some identified models, other models are to be identified and compared

**2 Partial effects in fatigue prediction**  
**We are continuously enlarging our database on experimental data, discussing the known rules on**

- Notch effect
- Mean stress effect
- Size effect
- Roughness effect
- Etc.
- & their joint interaction



We are looking for talented, curious students, who do not believe in simple truths, and who are not afraid of programming a little

**3 3D printed materials**  
**Analyzing the effect of various treatments and of 3D printing machine setup on the fatigue performance**

