



UNIQUE TEST BED FOR  
**Mechanical testing  
with hydrogen gas**

### TESTING CAPABILITY

- ▶ Tensile testing
- ▶ Slow Strain Rate Testing (SSRT)
- ▶ Low Cycle Fatigue Testing (LCF)
- ▶ High Cycle Fatigue Testing (HCF)
- ▶ Thermo Mechanical Fatigue Testing (TMF)
- ▶ Post-fracture analysis by SEM
- ▶ Hydrogen quantification by TDMS
- ▶ Temperature from -150 °C to 1200 °C
- ▶ Gas pressure up to 1000 bar

Coming soon:  
H<sub>2</sub> autoclave for  
fracture mecha-  
nics testing up to  
1000 bars

