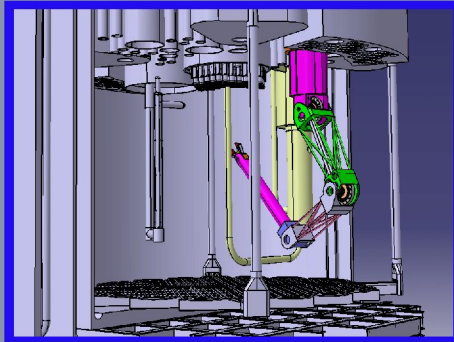
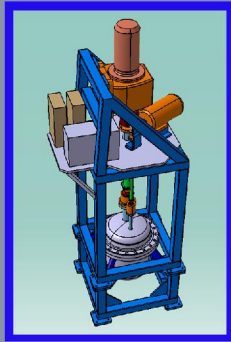


## Project:

### Test Rig for the XT-ADS In-Vessel Manipulator Technologies

## Client:

SCK-CEN, Mol, Belgium



## Organisation & Management:

Oxford Technologies Ltd was sole contractor for this work and utilised 3 professional staff on this 15 week project.

## Aim:

This project addressed the technological issues that must be resolved in order to operate remote handling manipulators at temperatures of up to 430 degrees C in a Lead Bismuth Eutectic within the XT-ADS machine vessel.

The output from this work was the specification & engineered design of a Proof of Principle test rig.

## Implementation:

The contract was conducted in stages:-

- > Definition of manipulator loading & kinematics
- > Conceptual design of manipulators for inspection & recovery
- > Identification of candidate actuators & joint elements
- > Research suitable technologies for arm elements
- > Definition of components to be tested & test rig requirements
- > Generation of requirements specification, concept for test rig and engineering design