CODE_ASTER TRAINING
Mar. 13th — Mar. 16th
By EDF Code_Aster Development team

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Jointly organized by
Electricite De France Group
Sun Yat-Sen University Institut Franco-Chinois de l’Energie Nucléaire
National Supercomputer Center In Guangzhou
## Code_Aster IS EDF'S GENERAL PURPOSE, OPEN SOURCE STRUCTURAL AND THERMOMECHANICS ANALYSIS SOFTWARE. www.code-aster.org

THERMO-MECHANICAL ANALYSES IN LINEAR AND NON-LINEAR STATICS AND DYNAMICS

### Training Program

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<tr>
<th>DATE</th>
<th>LEVEL</th>
<th>MORNING</th>
<th>AFTERNOON</th>
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<tbody>
<tr>
<td>Mar.13th</td>
<td>Basic</td>
<td>Introduction of Code_Aster and Salome-Meca : Basic theory, applications, framework, service etc. EDF software development policy</td>
<td>Introduction to FEM for solving mechanic problems A simple mechanical study Exercise 1: Calculation of an elastic perforated plate and mesh adaption</td>
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<tr>
<td>Mar.14th</td>
<td>Basic</td>
<td>Introduction to FEM for solving thermo-mechanical problems A simple thermal study Exercise 2: Pipe elbow under thermal-mechanical stress</td>
<td>Introduction to FEM for solving non-linear problems Presentation of Code_Aster industrial application Exercise 3: Yield-point load of a perforated plate</td>
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<td>Mar.15th</td>
<td>Advanced</td>
<td>Introduction to FEM for dynamics problems Exercise 4: Modal analysis of a plane mock-up</td>
<td>Advanced dynamics &amp; Fluid Structure Interaction Exercise 5: Seismic analysis of a dam and its reservoir</td>
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<td>Mar.16th</td>
<td>Advanced</td>
<td>Introduction to FEM for Fracture mechanics &amp; XFEM Exercise 6: Crack plate in tension Exercise 7: Circular crack in infinite body</td>
<td>Introduction of development within Code_Aster and HPC feature Presentations of Code_Saturne &amp; Telemac and cloud platform. Discussion</td>
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* NUMBER OF PARTICIPANTS IS LIMITED TO 40 PERSONS

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