

ECT Website Objectives

To be a resource center for developers in the NEAMS program elements.

To allow developers to directly contribute information for timely dissemination across the program elements.

To integrate with the main NEAMS site and potential future program element websites.

NEAMS URL

The domain name

<http://neams.energy.gov>

is being secured for the entire NEAMS project.

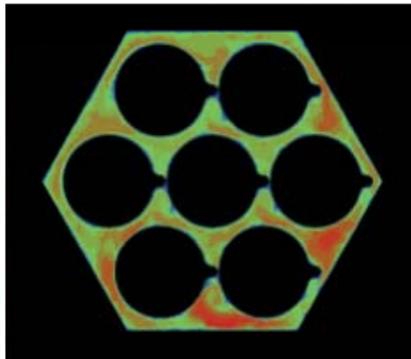
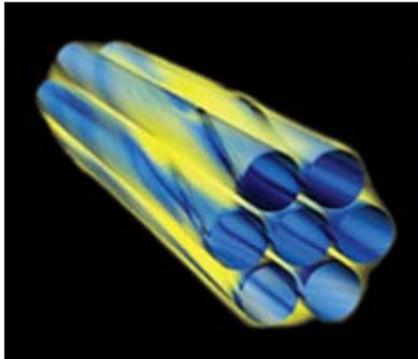
The ECT website may be housed under one of the following:

<http://neams.energy.gov/ect>

<http://neams.energy.gov/developers>

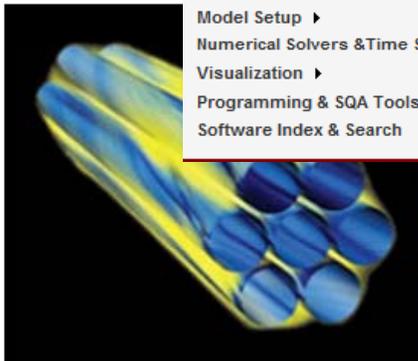
Website Features Overview

- Searchable catalog of highlighted tools & libraries w/their graded software risk level
 - This will be either a simple catalog entry for software packages with an established online presence elsewhere, or an extensive catalog entry for software needing a home.
 - Information to be found on software profile pages will include: descriptions, language, installation and run instructions, binaries, sample data sets, dependency descriptions, which computing centers have which versions of the software compiled, etc.
 - On the software profile pages, members will have the ability to contribute comments through a wiki as well as report bugs or feature requests.
 - Developers registering software packages will have the ability to login and update their software's meta data (including risk level).
- Software Grading Tool for risk level assignment.
 - Should a software package be re-graded, an email will be sent to those who subscribed for notification alerting them to the change and providing the appropriate best practices documentation for that risk level.
- Extensive searchable library of software quality assurance practices and tools from ASC program and from industry.
- Login ability for developers and program managers to contribute content directly to website for timely distribution to whole program

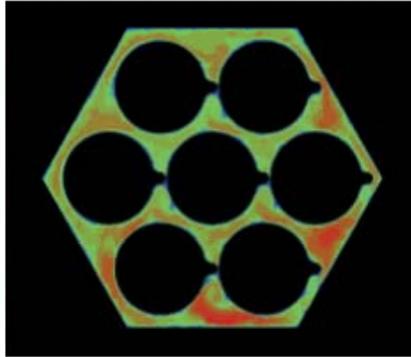
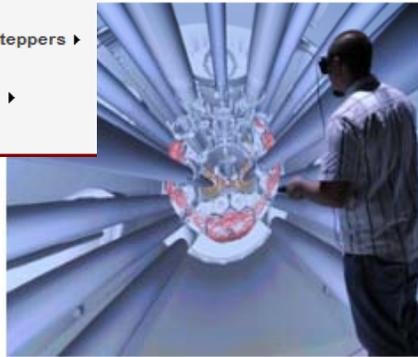


Founded on the four pillars below, the ECT program element of NEAMS provides the foundational resources to virtually simulate and test the next generation of safe, reliable nuclear energy.

Tools & Libraries	Software Quality Assurance	Facilities	Frameworks
The software resources necessary for creating a productive programming environment across multiple teams.	A risk-based, graded software approach merging a broad range of quality requirements.	Access to the computing platforms and cycles necessary for advanced modeling and simulation.	The infrastructure for a consistent user experience in obtaining, executing and analyzing simulations.

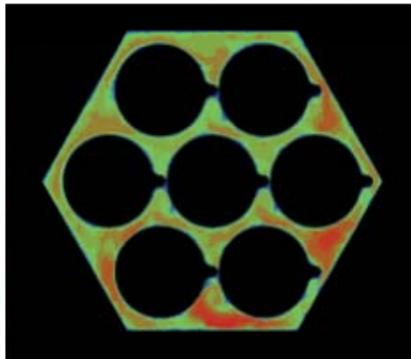
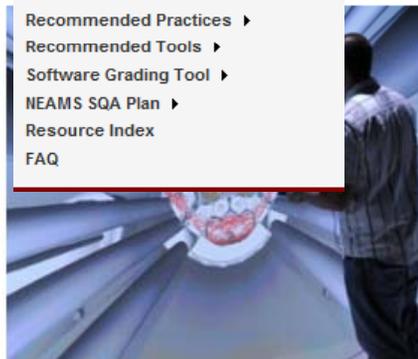
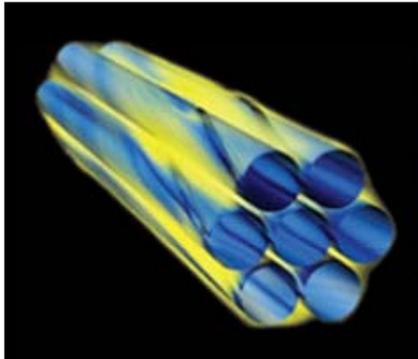


- Model Setup ▶
- Numerical Solvers & Time Steppers ▶
- Visualization ▶
- Programming & SQA Tools ▶
- Software Index & Search



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- Recommended Practices ▶
- Recommended Tools ▶
- Software Grading Tool ▶
- NEAMS SQA Plan ▶
- Resource Index
- FAQ

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