

## RELAP5-3D Hits 100

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*Membership in the International RELAP5 User Group (IRUG) has reached 100 institutions, commercial entities, universities, and other organizations.*

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### Active Licenses, 2017

Welcome to our newest member that helped us reach 100, the U.S. Nuclear Regulatory Commission, and thank you to all the members who joined our ranks before them.

Membership in IRUG has grown yearly as more and more institutions, commercial entities, universities, and other organizations realize the benefits of membership.

	Domestic	International	Totals
<b>Universities</b>	29	23	<b>52</b>
<b>Commercial</b>	14	18	<b>32</b>
<b>Government Use</b>	15	1	<b>16</b>
<b>Sub-Total</b>	<b>58</b>	<b>42</b>	<b>100</b>

### Benefits of IRUG Membership

RELAP5-3D is an internationally recognized tool for safety and engineering analyses of nuclear power and pressure vessels.

IRUG provides access to RELAP5-3D code versions, information exchange, user support, and training. Each new version of RELAP5-3D provides improvement in code capability, robustness, and software quality. Information exchange is available through annual IRUG seminars and RELAP5-3D web site, which includes RELAP5-3D newsletters, presentations from the seminars and much more information. IRUG supports its members through acceptance and resolution of user trouble reports, its Linked-In site and responses to email queries. Basic and Advanced RELAP5-3D Training is offered prior to the IRUG annual meeting on an alternating basis and in special classes upon request.

In addition, IRUG provides a cost-sharing mechanism for code improvements and a control point for RELAP5-3D maintenance and software improvements. IRUG membership fees are re-invested in code maintenance, architectural improvements, version control, and user support.

## RELAP5-3D License Fees, 2016 – 2017

The cost of a RELAP5-3D license is relatively low compared with similar software licenses.

<b>Membership Type</b>	<b>Domestic Users</b>	<b>International Users</b>
<b>Full Membership: Regular</b>	\$28,500	\$54,500
<b>Full Membership: Super User</b>	\$63,500	\$79,000
<b>Multi-user Participant</b>	\$9,500	\$17,000
<b>Single-user Participant</b>	\$6,500	\$12,000

IRUG membership fees will not increase in 2017. Continued growth in IRUG membership has helped absorb increased development and maintenance costs as new software quality assurance measures are implemented. RELAP5-3D is made available on a no fee basis to both domestic and international universities for educational purposes.

All perspective users, both domestic and international, must pass a US Governmental security screening.

### Export Control

RELAP5-3D falls under The US Department of Energy (DOE) 10 CFR 810 restrictions. The Idaho National Laboratory (INL) contractor Bechtel Energy Alliance (BEA) and all licensees have responsibilities for compliance. All new non-US users must be approved by DOE NA-242. The required information includes:

- **Legal name of licensee**
- **Full names and citizenship of end users and contacts**
- **Full addresses and phone number**
- **Assurance letters**
- **End use of the code**
- **IRUG membership level requested**

### Goals for 2017

IRUG is pursuing several avenues to continue its growth in the next years. During September 2016, invitations to join IRUG were sent to every university and college in the USA that has a nuclear program. Efforts have begun to expand distribution of RELAP5-3D in non-nuclear markets. This has included

advertising in periodicals in key business areas that can benefit by employing capabilities already available in RELAP5-3D.

Expansion into both domestic and international markets continues through advertising in journals and periodicals, information booths at select conferences, and publication of papers in conference proceedings and technical journals. IRUG and INL will continue to offer training prior to IRUG business meetings and upon special request for on-site training at interested organization locations.

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