The Applied Research Institute
Overview

- The University of Virginia Applied Research Institute (ARI) was created to enlarge the scope of projects and opportunities available to faculty and students.

- ARI leverages the University’s human and capital assets to support applied research, education, and training, with a focus on homeland security, national intelligence, and defense challenges.

- More information can be found at: http://www.uvaari.org
Mission

- The mission of the Applied Research Institute is to:
  - Create additional unique, traditional and non-traditional research and development opportunities for faculty, staff and students
  - Develop and provide education and training programs relevant to ARI partners
  - Foster pan-University research initiatives
  - Facilitate faculty/scientist exchanges with industry and government
Faculty Value Proposition Overview

Pre-Award Value Added

<table>
<thead>
<tr>
<th>Established Faculty – Current DoD/IC Funding</th>
<th>Established Faculty – No Current DoD/IC Funding</th>
<th>New Faculty – No Current DoD/IC Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Expansion of research programs to new agencies, directorates</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Proposal writing support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• SME opportunities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Expansion of research programs and funding with DoD/IC focus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Introduction and relationship building with these communities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Proposal writing support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• SME opportunities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Establishing research programs with funding agencies in DoD/IC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Introduction and relationship building with these communities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Proposal writing support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• SME opportunities</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A targeted approach to faculty engagement
## Faculty Value Proposition Overview

### Established Faculty – Current DoD/IC Funding
- Opportunity to perform classified research
- Ability to initiate and hold clearances
- Program management and customer relationship support
- SME opportunities

### Established Faculty – No Current DoD/IC Funding
- Opportunity to perform classified research
- Ability to initiate and hold clearances
- Program management and customer relationship support
- SME opportunities

### New Faculty – No Current DoD/IC Funding
- Opportunity to perform classified research
- Ability to initiate and hold clearances
- Program management and customer relationship support
- SME opportunities

### Post – Award Value Added

A targeted approach to faculty engagement
ARTEMIS

- Database to capture information about the University’s principal investigators and research areas pertinent to identifying participants in DoD/IC proposal efforts
- Pan-university database, one stop shop for identifying SMEs
- Optional participation, but required for working with the Applied Research Institute
- Designed to take faculty less than 5 minutes to complete survey
- ARTEMIS is a private database as we are holding clearance information about faculty, which is sensitive

Engage faculty, provide opportunities, enable success
# DoD/IC/HS/Private Industry Value Proposition

## Subject Matter Expertise
- Work closely with faculty on research projects of interest
- Shape and develop RFPs
- Inform leadership of status of technology and research in specific areas
- Continuing education and lectures
- Training

## Access to Services/Instrumentation
- Access to instrumentation and equipment that they don’t want to buy/purchase/maintain
- Technical Expertise to run samples/instrumentation for specific projects or programs
- Access to classified research space for small business and university partners

## Research Projects/Programs
- New independent projects focused on developing mission-specific capabilities or systems
- Projects and programs worked jointly with research entities
- Capacity to perform secure, sensitive and classified research
- Cost savings by performing research locally and with less expensive rates/labor

## Test and Evaluation
- Independent test and evaluation of new technology, capabilities, and protocols
- Unbiased reporting of analysis and results

## Education
- Development of major, minor, and certificate programs in intelligence, national security, technical disciplines
- Continuing education and lectures
- Training

---

A targeted approach to community engagement
Industry Partners

Booz Allen Hamilton

Battelle
The Business of Innovation

leidos
Recent Success - NAWCAD

- Naval Air Warfare Center Aircraft Division (NAWCAD), seeking universities with graduate schools of Science and Engineering, with applied research centers to collaborate on and support a broad range of technical and research projects:
  - Data science
  - Cyber physical systems
  - Advanced logistics

- Also interested in Executive Education, to include
  - Business decision drivers
  - Senior leadership priorities
  - Financial metrics

- Cooperative agreement signed in September, will permit pursuit of a wide variety of opportunities.
Conference on National Defense and Intelligence

2015 Event will be held on June 15th

- Invitation only event hosted at Darden; Sunday night reception at the Research Park.

Single Day Event

- 2014 - over 20 companies, 20 agencies represented, 260 attendees registered
- Speakers included Congressman Forbes, Senator Kaine, Gilman Louie, and panel discussions to include Benjamin Riley, Maureen Baginski, Sean Kirkpatrick and others
- Afternoon, topic specific discussion sections
- **Key Attendees:** Commander, ONI; Director of Research, ONI; Director, DHS Advanced Projects Agency; Exec. Director, ODASA (R&T), Deputy Director, Future Joint Force Development

Discussion Session Topics:

- **2014:** Identity intelligence, advanced materials, advanced manufacturing, cultural mapping, emerging technologies
- **2015:** GIS, infectious disease, data analytics others to be added with gov’t and industry input

Community Outreach and Business Development Opportunities
Conclusions

- ARI is a resource for faculty, staff, and students, as well as industry and agencies
- Provides one conduit for agencies and corporations focused on defense, intelligence, and homeland security challenges
- ARI provides proposal preparation support, program management support, and general help and guidance for working within the DoD and IC
- ARI is a resource that can provide access to the University’s assets