



The Information Directorate's Information Institute[®] (II)

**RIB/Dr. Stanley Wenndt, Program/Task Manager, Principal Advisor,
Deputy Institute Director;**

GI/Ms. Elizabeth Kelly, Program Coordinator

GI/Dr. Andrew Noga, Institute Director



AFRL/RI SEPTEMBER 2020

The Information Institute[®] (II): Established in 1996

- Acknowledgement: Former Key “Contributors”



American Society for Engineering Education*
*currently contributes through the NDSEG



Cyber Research Institute (CRI)

JAG Technologies



The Information Institute[®] (II): Mission

- Strengthen and expand information technology research within the Information Directorate
- Develop collaborative relationships among and between the academic members and the Information Directorate
- Increase research emphasis in areas of information technologies critical to RI's mission

The II is a virtual organization created by the Information Directorate

The II facilitates on-site* fundamental research collaborations with academia

* on-site collaborations will be the goal, but in deference to directorate health/safety policies

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The Information Institute® (II): Description and Roles



- A Registered Trademark in 2018
- An RI Office
 - Established 1996
 - RI's principal outreach to academia
- A Virtual Organization
 - Membership through Educational Partnership Agreements (EPAs)
 - Consortium of universities performing research in areas of information technology of interest to the Information Directorate
- A Focal Point, Coordinator and Facilitator
 - RI faculty/student programs
 - AFOSR-funded faculty/student programs
 - National faculty/student programs

The Information Institute[®] (II): An RI Office

- Located in Building 106, second floor, room F2B-09 and F2B-12
- Faculty and Students are located:
 - In Building 3 with their Advisors/collaborators
 - At the Griffiss Institute (when necessary, e.g., for US Permanent Resident faculty and students)
 - On Griffiss Park
 - Conveniently close
- 2020 has been a unique year for everyone including the II
 - AFOSR's programs have been implemented/transitioned to remote collaborations for this year; updates on this policy to follow at later time
 - RI likewise has implemented their II component programs remote collaborations; updates on this policy to follow at a later time
 - These policies are necessary but will impact some collaborations, e.g., when specialized equipment cannot be accessed by associates

The Information Institute® (II): A Virtual Organization, via Educational Partnership Agreements

- Formal, non-binding agreement, that establishes a mutual understanding between the university and RI
 - Establishes II membership for the university
- Useful for
 - Equipment exchange
 - Personnel hosting
 - Information exchange
- II membership benefits
 - Early access to program announcements, II bulletins
 - Notifications, like employment opportunities
 - Research networking/collaborations



The Information Institute® (II): Current Membership

Memberships with
96 Institutions in
35 States

Air Force Academy
Air Force Institute of Technology
AFRL Information Directorate
Arizona State University
Brescia University
California State University, Northridge
Central State University
City College of New York
Clarkson University
Clayton State University
Colorado State University
Cornell University
Dartmouth College
Dillard University
Embry-Riddle Aeronautical University
Farleigh Dickenson University
Florida Atlantic University
Florida Institute of Technology
Florida International University
Georgia Institute of Technology
George Mason University
Howard University
Indiana University of Pennsylvania
Iowa State University
Kansas State University
LaSalle University
Louisiana State University
Louisiana Tech University
Minnesota State University
Missouri University of Science &
Technology
Montana State University
Navajo Technical University

New Jersey Institute of Technology
New York University
Norfolk State University
North Carolina Agricultural and Technical
State University
Northeastern University
Northern Arizona University
Northwestern University
Norwich University
Prairie View A&M University
Purdue University
Rensselaer Polytechnic Institute
Rochester Institute of Technology
Rose-Hulman Institute of Technology
Rutgers, The State University of New Jersey
San Diego State University
SUNY Binghamton
SUNY Polytechnic Institute
SUNY Stony Brook
Syracuse University
Temple University
Tennessee State University
Texas A&M University
Texas Southern University
The Pennsylvania State University
University at Albany
University of Arkansas
University of Buffalo
University of California, Berkeley
University of California, Los Angeles
University of California, Riverside
University of Central Florida

University of Cincinnati
University of Connecticut
University of Dayton
University of Florida
University of Hawaii
University of Illinois
University of Kansas
University of Maryland
University of Massachusetts, Amherst
University of Massachusetts, Dartmouth
University of Massachusetts, Lowell
University of Minnesota, Twin Cities
University of Missouri, Kansas City
University of Nevada, Las Vegas
University of North Texas
University of Oklahoma
University of Rochester
University of South Alabama
University of Southern California
University of South Carolina
University of South Florida, Tampa
University of Texas, Austin
University of Texas, Dallas
University of Tulsa
Utah State University
Utica College
Vanderbilt University
Virginia Commonwealth University
Virginia Polytechnic Institute and State
University
Washington University, St. Louis
Wichita State University
Wright State University

The Information Institute[®] (II): A Focal Point of Programs

- AFRL/RI's focal point for fostering of, administration and oversight of, component on-site faculty (and student) research programs
 - AFOSR Summer Faculty Fellowship Program (SFFP)
 - Faculty and their Graduate Students
 - RI Visiting Faculty Research Program (VFRP)
 - Faculty and their Students
 - AFRL Science and Technology Fellowship Program (STFP)
 - (Formerly the National Research Council (NRC) Post-Doc Program)
 - Administered by The National Academies of Sciences Engineering and Medicine
 - Post-Doctoral Researchers, Senior Researchers
 - RI Research Fellowship Program
 - PhD Candidate Researchers
 - Post-Doctoral Researchers
 - Senior Researchers
 - National Defense Science and Engineering Graduate (NDSEG) Fellowship
 - PhD Students
 - Administered by Systems Plus Inc. (SysPlus)

The Information Institute® (II): A Focal Point of Programs

Information Directorate

Function

- Funding support; II function
 - VFRP
 - Extension Grants (VFRP and SFFP)
 - RI Research Fellowship
 - II membership EPAs



AFOSR

Function

- Funding support
 - SFFP – Contracted through SysPlus, Inc
 - STFP – (Science and Technology Fellowship Program) Contracted through the National Academies



NDSEG

Function

- Solicit input from labs



Information Institute

VFRP

SFFP

RI Research Fellowship

STFP

NDSEG

The Information Institute® (II): SFFP, VFRP, By the Numbers



- II Visiting Research Faculty Program (VFRP)**

- Funded by II and Technical Divisions

<http://www.wpafb.af.mil/afri/ri/>

- AFOSR Summer Faculty Fellowship Program (SFFP)**

- 21 Fellows in 2019
 - 20 Fellows in 2018
 - 20 Fellows in 2017

<http://afsffp.sysplus.com/>

Year	Professors	Students
2015	75	22
2016	64	25
2017	54	15
2018	56	16
2019	42	11

***SFFP = 29 F; 13 S** **VFRP = 31 F; 4 S**
 Current as of 9/22/2020

The Information Institute[®] (II): Impact

Impact to AFRL/RI

- Early access to innovation
- Help us stay abreast of new technology trends
- Enhance the RI workforce
- Help foster a collegial environment for research
- Serve as mentors for staff enrichment
- Source of seminar speakers
- Serve as a clearing house and broker for collaborative research opportunities

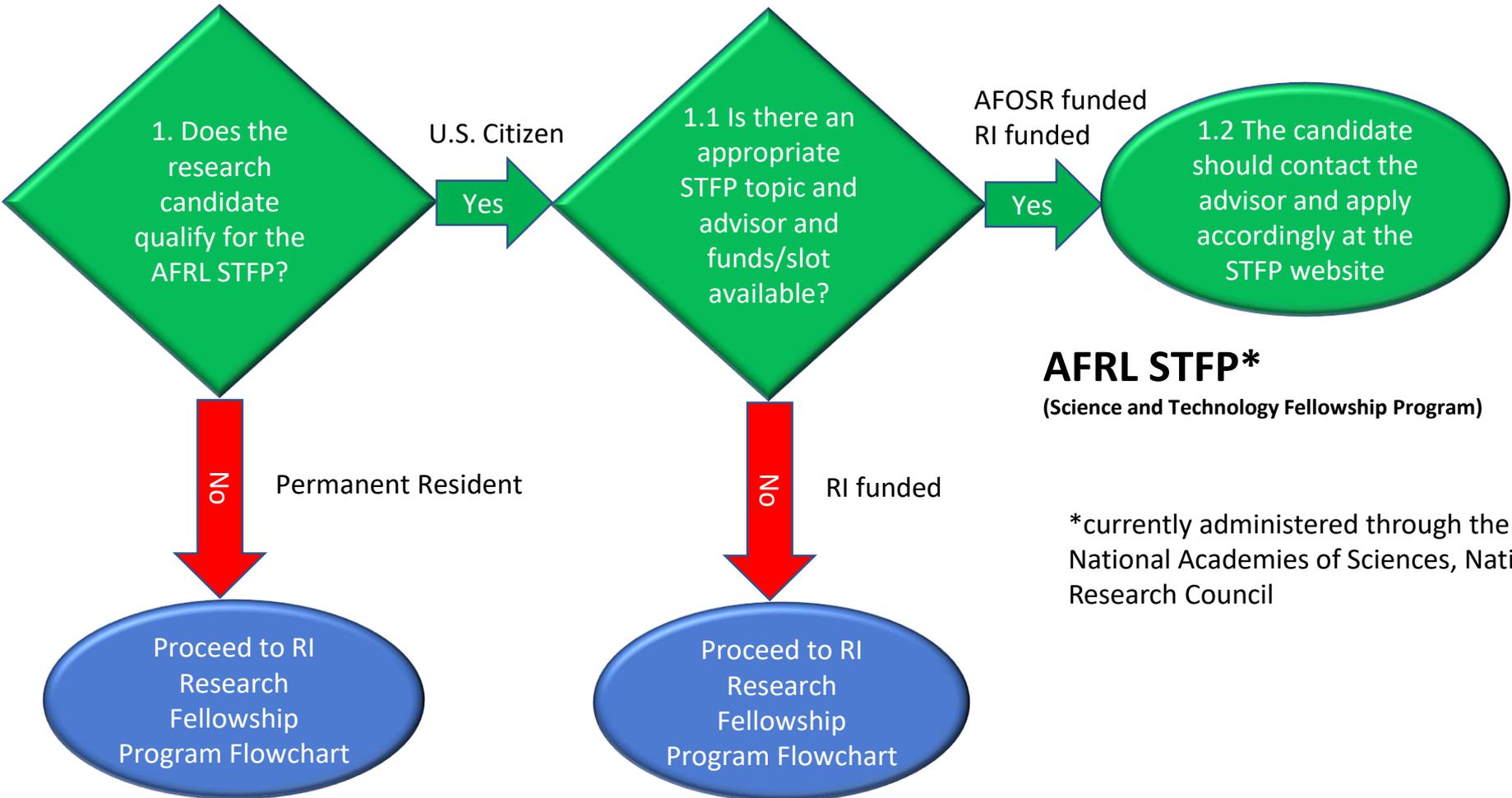


Impact to Academia

- Interesting problems
- Opportunities for collaborative research
- Employment opportunities for students (and Post-Docs)
- Sabbatical leave appointments
- Financial support for research
- Aid in the transition of technology to customers
- Connection to research opportunities with AFOSR

The Information Institute® (II): General Background on Hosting On-Site Post-Doctoral and Senior Researchers

Fellowship Programs Utilization Steps



AFRL STFP*
(Science and Technology Fellowship Program)

*currently administered through the National Academies of Sciences, National Research Council

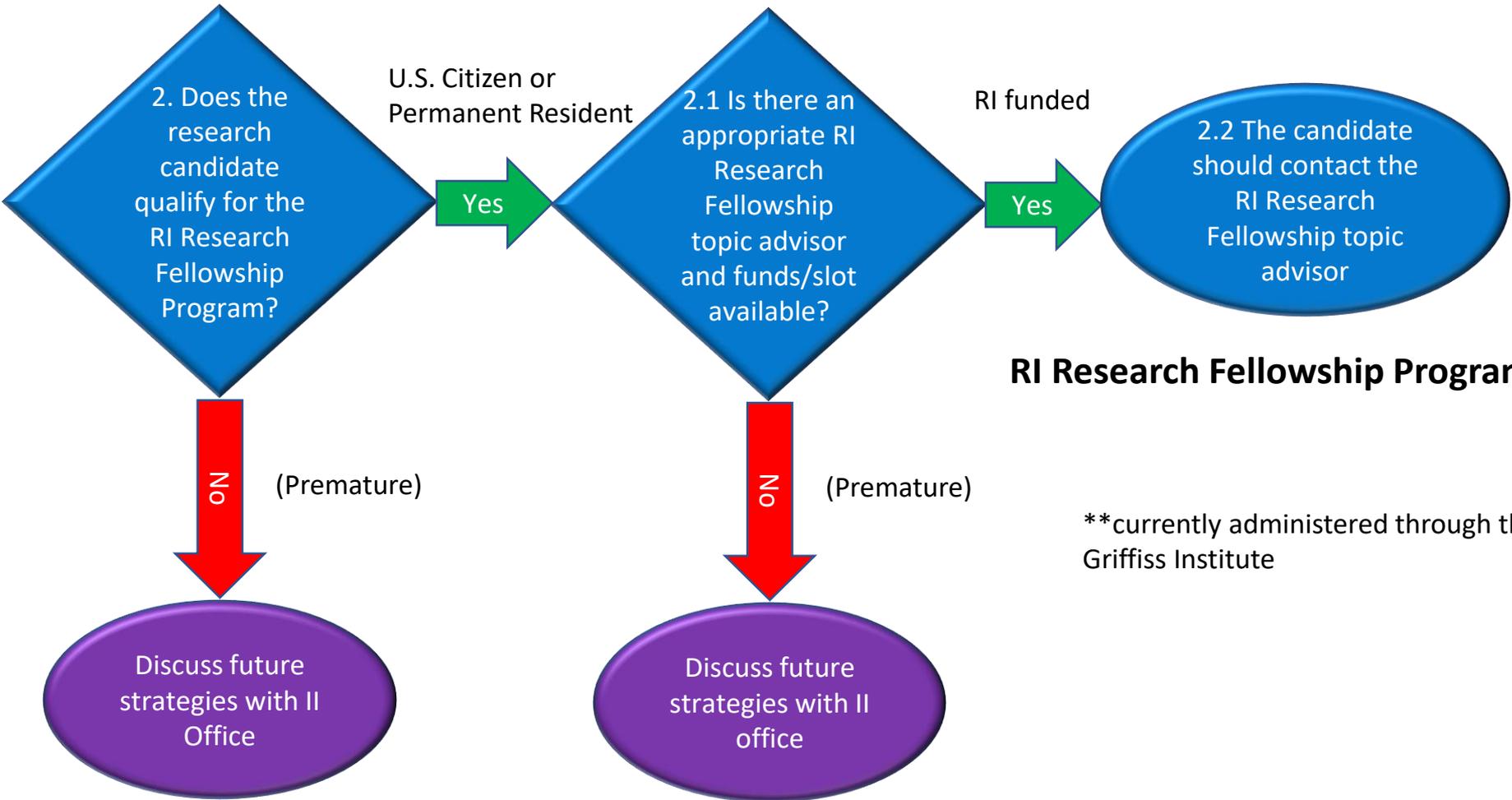
The Information Institute® (II): General Background on Hosting On-Site Post-Doctoral and Senior Researchers

The following chart can be used by RI research topic advisors (VFRP, SFFP, or STFP) and others as a guide for the RI Research Fellowship Program.

Note: these are funded by the advisor with RI project funds.

The Information Institute® (II): General Background on Hosting On-Site Post-Doctoral and Senior Researchers

Fellowship Programs Utilization Steps



Other Example Opportunities for Research

- II related:
 - **Extension Awards (formerly called Extension Grants)**; watch for our call for proposals (open to VFRP or SFFP summer associates at RI)
- Non II related (contractual):
 - **SBIR/STTR**; Small Business Innovative Research, Small Business Technology Transfer <https://www.sbir.gov/tutorials/program-basics/tutorial-1>
 - **BAAs**; Broad Agency Announcements <https://www.wpafb.af.mil/afri/ri/>
- AFOSR sponsored
 - **BAA**; <https://www.wpafb.af.mil/Welcome/Fact-Sheets/Display/Article/842050/afosr-funding-opportunities/>
 - Includes various things, such as Multi-disciplinary University Research Initiative (MURI)

The Information Institute® (II): Program Utilization Matrix

 e-mail: rrs.iweb@us.af.mil		II Hosting Mechanism						
		AFOSR Summer Faculty Fellowship Program (SFFP)	RI Visiting Faculty Research Program (VFRP)	AFRL Science and Technology Fellowship Program (STFP)		RI Research Fellowship Program		
				Post-Doc	Senior	Doctoral Candidate	Post-Doc	Senior
Program Characteristics	AFOSR Funded	Yes	Not Directly	6 "slots"		Not Directly	Not Directly	Not Directly
	RI Funded	No	Yes	Can be	Can be	Yes (advisor)	Yes (advisor)	Yes (advisor)
	U.S. Citizen	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Permanent Resident	No	Yes	No	No	Yes	Yes	Yes
	Tenure Dates	Summer	Summer and Flexible	See below	See below	See below	See below	See below
	Opening Flexibility	No	Can be (if outside of main summer component)	Quarterly	Quarterly	Yes	Yes	Yes
	Tenure Duration Flexibility	No	Can be (if outside of main summer component)	1 Year with 1 Year Renewal Possible	Typically 1 Year	Minimum 2 Months	Typically 1 Year, Minimum 2 Months	Typically 1 Year, Minimum 2 Months
	On-Site Location	RI Facilities	Permanent Residents Hosted at Open Campus	RI Facilities	RI Facilities	Permanent Residents Hosted at Open Campus	Permanent Residents Hosted at Open Campus	Permanent Residents Hosted at Open Campus

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Questions?

- **GI/Ms. Elizabeth Kelly, II Program Coordinator**
 - Phone: 330-4775*
 - E-mail: elizabeth.kelly.5.ctr@us.af.mil
- **GI/Dr. Andy Noga, II Director**
 - Phone: 330-3251*
 - E-mail: andrew.noga.1.ctr@us.af.mil
- **RIBB/Dr. Stan Wenndt, II Manager, II Principal Advisor**
 - Phone: 330-7244*
 - E-mail: stanley.wenndt@us.af.mil
- **II Office: Building 106, Room F2B-09, F2B-12**



* Best to use e-mail while we are unable to regularly be in our physical offices

The Information Institute[®] (II)

General Contact: rrs.iiweb@us.af.mil