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PRINCIPAL INVESTIGATOR: Howard Gamble

CONTRACTING ORGANIZATION: National Academy of Sciences/NAE/IOM  
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<b>13. SUPPLEMENTARY NOTES</b>					
<b>14. ABSTRACT</b> During this reporting period, the NRC promoted research opportunities at AMRMC institutes through a broad outreach plan. A total of 12 applications were received during the period and of these, 10 were reviewed by NRC panels. 8 awards were offered and all 8 were accepted. A total of 13 Associates ended their tenure during the reporting period and of these 9 submitted a final report. The productivity of these Associates is listed in the technical report.					
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*The National Academies of*  
SCIENCES • ENGINEERING • MEDICINE  
**RESEARCH ASSOCIATESHIP PROGRAM**  
with  
**AMRMC - Walter Reed Army Institute of Research**

**Contract Technical Report**

Contract No. W81XWH-12-2-0033  
Contract Period: 05/01/2012-02/28/2018  
Report Period: 05/01/2012-02/28/2018

During the reporting period, the National Academies of Sciences, Engineering, and Medicine (the Academies) NRC conducted the following activities in support of the subject contract:

### **Outreach and Promotion**

The promotional schedule to advertise the NRC Research Associateship Programs included the following: 1) attendance at meetings of major scientific and engineering professional societies; 2) advertising in programs and career centers for these and other professional society meetings; 3) direct mailing and emailing of announcements and program materials to presidents, graduate deans, and heads of appropriate science and engineering departments and minority-affairs offices of all academic degree-granting institutions in the United States; 4) posting announcements on internet job sites, electronic newsletters and professional society websites; 5) print advertising in high profile publications (e.g., Science magazine, the Chronicle of Higher Education); and, 6) maintaining a presence on social media sites such as Facebook.

The Academies attended a number of minority focused events in which we maintained exhibit booths, participated in workshops and advertised in meeting literature, newsletters and websites or submitted materials for distribution. In addition, ads were placed in a variety of minority publications (e.g., Affirmative Action, Black Collegian).

In advertising the Research Opportunities available to prospective applicants, the Academies maintained an up-to-date listing of all active Research Advisers, current Adviser contact information and details of each Research Opportunity.

### **Processing and Review of Applications**

Applications to the Research Associateship Programs were submitted via a web-based application system. Each application cycle opened two months prior to the application deadline. Academies staff provided support to prospective applicants including providing application instructions, technical support and additional information as requested.

A summary of applications for the reporting period is shown in Table 1.

For each applicant, the Academies received and processed an application form, a research proposal, transcripts, a statement of previous and current research, and confidential reference reports. An application file check was made prior to the review and each applicant was notified if required documents were missing.

The Academies convened panels in five broad discipline areas for the competitive review of applications in the NRC Research Associateship Programs. Results of the review were made available to Laboratory Program Representatives immediately following the conclusion of the each review.

A summary of the outcome of the review of applications for the reporting period is shown in Table 1.

### **Administration of Awards**

The Academies made awards to applicants based on sponsor authorization. A summary of awards authorized and the acceptance or declination by the applicant during the current reporting period is shown in Table 1.

For NRC Research Associates beginning or continuing tenure, the Academies provided the administrative functions described in the contract Statement of Work. These functions included stipend payments,

management of a major medical benefits insurance program, and reimbursement for relocation and travel to professional meetings.

A summary of NRC Research Associates on tenure during the reporting period is shown in Table 2.

## **Outcomes Reporting**

All NRC Research Associates who completed tenure were requested to submit a final report that described the outcome of their Research Associateship award. A summary of the activities of NRC Research Associates who submitted final reports during this reporting period, including publications, presentations and patents, as well as an assessment of their experience in the program, are summarized in Table 3. Specific accomplishments of NRC Research Associates completing tenure during the reporting period are summarized in individual Final Reports (attached to annual technical reports).

**Table 1.** Summary of applications and awards

**Table 2.** NRC Research Associates on tenure during the reporting period

**Table 3.** Activities of NRC Research Associates who completed tenure during the reporting period

## AMRMC - Walter Reed Army Institute of Research

**Table 1: Summary of applications and awards**

	Applications			Lab Decision/Outcome		
	Submitted	Reviewed	Recommended	Awards Offered	Awards Accepted	No Offer
May 2012	3	3	3	3	3	0
Aug 2012	0	0	0	0	0	0
Nov 2012	1	1	1	1	1	0
Feb 2013	2	1	1	1	1	0
May 2013	0	0	0	0	0	0
Aug 2013	2	1	1	1	1	0
Nov 2013	0	0	0	0	0	0
Feb 2014	2	2	2	0	0	2
May 2014	0	0	0	0	0	0
Aug 2014	5	3	3	1	1	1
Nov 2014	4	3	3	3	2	0
Feb 2015	1	1	1	1	1	0
May 2015	1	0	0	0	0	0
Aug 2015	2	1	1	1	1	0
Nov 2015	1	1	1	1	1	0
Feb 2016	2	2	2	1	1	0
May 2016	4	4	4	4	3	0
Aug 2016	0	0	0	0	0	0
Nov 2016	2	2	2	2	2	0
Feb 2017	3	2	2	2	2	0
May 2017	3	3	3	1	1	0
Aug 2017	1	1	1	1	1	0
Nov 2017	2	1	1	1	1	0
Feb 2018	4	4	4	2	2	0
<b>Total (All Reviews)</b>	<b>45</b>	<b>36</b>	<b>36</b>	<b>27</b>	<b>25</b>	<b>3</b>

**Table 2: NRC Research Associates on tenure during the reporting period**

Associate	Adviser	Tenure Dates	Final Report
<b>Walter Reed Army Institute of Research, Silver Spring</b>			
Abente, Eugenio	Bodhidatta, Ladaporn	9/17/2012-7/31/2013	Received
Anderson, Margery Diane	Yourick, Debra Lynn	3/11/2014-3/10/2019	
Bailey, Zachary Stephen	Leung, Lai Yee	8/21/2017-8/20/2018	
Barasa, Sheila Ogoma	Mancuso, James D	5/5/2015-9/4/2017	Not Recv'd
Boutte, Angela	Dave, Jitendra R.	6/15/2011-1/14/2013	Received
Brager, Allison J	Capaldi, Vincent F	7/18/2016-3/13/2017	Received
Brown, Holly Kay	Yourick, Debra Lynn	1/18/2018-1/17/2019	
Caudle, Krista Layne	Tortella, Frank Casper	1/28/2013-7/13/2014	Received
Crivat, Georgeta	Angov, Evelina	5/16/2016-6/25/2017	Received
DeDominicis, Kristen Elizabeth	Boutte, Angela M	9/8/2015-3/31/2017	Received
Kobylinski, Kevin Conrad	Davidson, Silas Andrew	10/17/2011-4/16/2017	Received
Kuehn, Emily Denise	Yourick, Debra Lynn	11/14/2016- 11/13/2018	
Leung, Lai Yee	Tortella, Frank Casper	2/16/2010-12/31/2012	Received
Linton, Yvonne-Marie	Clark, Jeffrey William	10/3/2011-10/2/2016	Not Recv'd
Mantua, Janna	Capaldi, Vincent F	1/2/2018-1/1/2019	
Margulieux, Katie Rose	Swierczewski, Brett Edward	8/4/2016-8/3/2018	
McCoy, Margaret Ellen	Lanar, David Ervin	7/27/2009-10/4/2012	Received
McCracken, Michael Kevin	Jarman, Richard George	3/9/2015-6/8/2018	
McDermott, Emily Gray	Garver, Lindsey Susannah	1/9/2017-1/8/2019	
Melendrez, Melanie Crystal	Jarman, Richard George	3/22/2010-5/21/2012	Received
Moore, Nicole LT	Genovese, Raymond F.	7/29/2010-2/24/2014	Received
Mountney, Andrea	Tortella, Frank Casper	11/15/2010-2/28/2013	Received
Mutihac, Radu	Balkin, Thomas J.	3/1/2011-2/28/2013	Not Recv'd
Pichard, Luis Eduardo	Balkin, Thomas J.	7/24/2012-3/31/2016	Not Recv'd
Pichugin, Alexander Vladimirovich	Krzych, Urszula	1/12/2009-7/11/2012	Received
Pollett, Simon	Jarman, Richard George	6/27/2016-3/31/2018	
Rajendran, Gnana Ravi	Kozar, Michael Patrick	9/7/2010-8/31/2012	Received
Rossetti, Franco	Yourick, Debra Lynn	6/1/2009-5/31/2013	Received
Sambanthamoorthy, Karthik	Wagar, Eric James	3/1/2011-2/28/2015	Not Recv'd
Simonelli, Guido	Capaldi, Vincent F	10/6/2014-10/5/2018	
Taylor, Rachel Marie	Moore, Nicole L.T.	5/15/2017-5/14/2019	
Tenenbaum, Laura Subbiah	Yourick, Debra Lynn	6/3/2013-2/28/2018	Received
Thangavelu, Bharani	Boutte, Angela M	9/21/2017-9/20/2018	
Waickman, Adam Tully	Currier, Jeffrey R	10/30/2017- 10/29/2018	
Yoon, K. Lira	Quartana, Phillip J	1/3/2013-1/2/2014	Received
Zarling, Stasya Nicole	Krzych, Urszula	2/7/2011-5/15/2016	Received

**Table 3: Activities of NRC Research Associates who completed tenure during the reporting period**

- 23 Associates ended tenure during the report period
- 33 months was the average tenure length
- 66 months was the longest
- 8 months was the shortest
- 18 submitted final reports

In the final reports, Associates indicated the following scholarly activity while on tenure.

- 64 Articles published in refereed journals
- 2 Articles other (Proceedings, Book Chapters, other)
- 77 Domestic presentations
- 22 International presentations
- 0 Patent applications
- 15 Awards

After ending their tenure, Associates indicated their future plans as follows:

- 1 Permanent position at the NRC host agency
- 9 Contract or temporary position at the NRC host agency
- 1 Research/administrative position with another U.S. government agency
- 0 Research/administrative position with foreign government agency
- 3 Research/teaching at US college/university
- 0 Research/teaching position at a foreign college or university
- 0 Research/administrative position in private industry in the U.S.
- 0 Research/administrative position in private industry outside of the U.S.
- 1 Research/administrative position with a non-profit
- 0 Self-employed/consulting
- 1 Postdoctoral Research
- 2 Other
- 0 No information provided

In their final reports, Associates were asked to evaluate certain aspects of their experiences on a scale of 1 (low) to 10 (high). The average rating for each item follows:

- 9.2 Short-term value (lab)-Development of knowledge, skills, and research productivity at lab
- 9.4 Long-term value (career)-How your Research Associateship affected your career to date
- 9.3 Laboratory Support-Equipment, funding, orientation, safety & health training, etc.
- 9.3 Adviser Mentoring-Quality of mentoring from the Research Adviser
- 9.6 LPR Support-Quality of administrative support from the LPR
- 9.4 NRC Support-Quality of administrative support from the NRC