Advisers to the Nation on Science, Engineering, and Medicine

# CHECKLIST

#### **SELF-MANAGED APPLICATION** IF YOUR APPLICATION PACKAGE DOES NOT CONTAIN ALL OF THE DOCUMENTS LISTED BELOW, YOUR APPLICATION WILL NOT BE REVIEWED.

#### Send to The National Academies Research Associateship Programs Office in Washington, DC:

- Application (all four pages)
- Laboratory/Center Review (with only the top portion completed)
- \_\_\_\_\_ **Research** Proposal
- Appendix to the Research Proposal \_\_\_\_\_
- Previous and Current Research (Postdoctoral or Senior form) \_\_\_\_
- Transcripts (Undergraduate and Graduate for Postdoctoral applicants only)
- Reference Reports (or Letters of Reference) -- each in a sealed & signed envelope (four)
- This signed Checklist

#### **DEADLINE REMINDER - 2002**

Fall Review/Summer Faculty Fellowship Programs applications must be postmarked by November 1.

#### **DEADLINE REMINDER – 2003**

\*Winter Review applications must be postmarked by February 1 Spring Review applications must be postmarked by May 1

\*Summer Review applications must be postmarked by August 1

Autumn Review applications must be postmarked by November 1

\*NIST participates ONLY in the Winter Review

\*NAI participates ONLY in the Winter and Summer Reviews

The National Academies Research Associateship Program posts, on its website, information on awardees including the Associate's name, the Laboratory or Center where the research is to be conducted, the Research Adviser and the title of Research Proposal. If you receive an award, and **do not wish** to have your name posted, please check this box.

Signature \_\_\_\_\_ Date \_\_\_\_\_ My signature verifies that I have completed and transmitted all of the documents listed for the Application package above.

Please also print your name

#### Applications should be sent by express delivery to:

**Research Associateship Programs** The National Academies 2001 Wisconsin Avenue, NW [GR 322A] Washington, DC 20007 Phone 202-334-2760 Fax 202-334-2759 E-mail **rap@nas.edu** www.national-academies.org/rap

THE NATIONAL ACADEMIES Advisers to the Nation on Science, Engineering, and Medicine

# **Research Associateship Programs**

# **APPLICATION**

We recommend that you print out and refer to the Instructions for this Application.
Enter information manually or electronically in Layout view.
ORIGINAL SIGNATURES required.

OFFICE USE ONLY			
ID			
Postdoctoral			
Senior			
Initials			

Applicant Last or Family Name First N			First Name				
Withers Paul			1				
Middle Name Maiden							
Home or Institution, MailCode/Stop, B	ldg./Room, Number	/Street	Cit	ity		Zip (Posta	I) Code
3002 East Hawthorne Street						85716	
			Sta	ate / Province		Country	
						USA	
	Bldg./Room, Number	/Street	Cit	ty		Zip (Posta	I) Code
,						<u>ST19 9P</u>	L
Wheaton Aston			Sta	ate / Province		-	
				/		Great Br	itain
Country							
Great Britain							
If you are a naturalized US citizen, enter your naturalization date and		mber.			Number	nber	
			Visa Type D		Date Visa Status	Expires	
If you are a non-US citizen already in the US, enter the ty		ı hold.	F-1		July 19, 2003		
			Ali	ien Registration Nu	mber		
ist in order, beginning with t	the most recen	t degi	ree	awarded or ex	xpected	<b>d.</b>	
Name of University or College City, State/Province, Country	Inclusive Dates Year to Year	Degr	ree	Awarded or Expected Month / Year			
zona, Tucson, Arizona, USA	1998 - 2003	PhI	D	05 / 2003	Planeta	ary Science	2173
nbridge, Cambridge, Great Britain	1994 - 1998	MS	S	06 / 1998	Physics	5	8299
nbridge, Cambridge, Great Britain	1994 - 1998	BA	1	06 / 1998	Physics	8	8299
	-			/			
	-			/			
	-			/			
	Home or Institution, MailCode/Stop, B 3002 East Hawthorne Street Home or Institution, MailCode/Stop, B 39 Greenhill Lane, Wheaton Aston Country Great Britain tralized US citizen, enter your naturality on-US citizen already in the US, enter for and enclose a copy of your alien List in order, beginning with the Name of University or College City, State/Province, Country zona, Tucson, Arizona, USA nbridge, Cambridge, Great Britain	Home or Institution, MailCode/Stop, Bldg,/Room, Number         3002 East Hawthorne Street         Home or Institution, MailCode/Stop, Bldg,/Room, Number         39 Greenhill Lane,         Wheaton Aston         Country         Great Britain         tralized US citizen, enter your naturalization date and number         m-US citizen already in the US, enter the type of visa you         Glegal permanent resident, enter your alien registration main and <u>enclose</u> a copy of your alien registration (green)         List in order, beginning with the most recent         Name of University or College       Inclusive Dates         City, State/Province, Country       Year to Year         zona, Tucson, Arizona, USA       1998 - 2003         nbridge, Cambridge, Great Britain       1994 - 1998	Paul       Maiden         Home or Institution, MailCode/Stop, Bldg./Room, Number/Street       3002 East Hawthorne Street         Home or Institution, MailCode/Stop, Bldg./Room, Number/Street       39 Greenhill Lane,         Home or Institution, MailCode/Stop, Bldg./Room, Number/Street       39 Greenhill Lane,         Wheaton Aston       Country         Great Britain       Great Britain         wralized US citizen, enter your naturalization date and number.         om-US citizen already in the US, enter the type of visa you hold.         Filegal permanent resident, enter your alien registration number and <u>enclose</u> a copy of your alien registration (green) card.         List in order, beginning with the most recent degr.         Name of University or College       Inclusive Dates Year to Year         Vame of University or College       Inclusive Dates Year to Year         City, State/Province, Country       Year to Year         Degs       Dord         Name of University or College       Inclusive Dates Year to Year         City, State/Province, Country       Year to Year         Degs       Zona, Tucson, Arizona, USA       1998 - 2003         Name       Inbridge, Cambridge, Great Britain       1994 - 1998	Paul       Maiden Nar         Home or Institution, MailCode/Stop, Bldg./Room, Number/Street       Cit         3002 East Hawthorne Street       Trist         Home or Institution, MailCode/Stop, Bldg./Room, Number/Street       Cit         39 Greenhill Lane,       Sit         Wheaton Aston       Sit         Country       Sit         Great Britain       Sit         uralized US citizen, enter your naturalization date and number.       Vit         m-US citizen already in the US, enter the type of visa you hold.       Fe         Glegal permanent resident, enter your alien registration number and <u>enclose</u> a copy of your alien registration (green) card.       Al         List in order, beginning with the most recent degree       Name of University or College       Inclusive Dates Year to Year       Degree         Name of University or College       Inclusive Dates Year to Year       Degree       Degree         Name of University or College       Inclusive Dates Year to Year       Degree       Degree         Name of University or College       Inclusive Dates Year to Year       Degree         State/Province, Country       Year to Year       Degree         Name of University or College       Inclusive Dates Year to Year       Degree         State/Province, Country       Year to Year       Degree	Paul       Maiden Name (if applicable)         Home or Institution, MailCode/Stop, Bldg,/Room, Number/Street       City         3002 East Hawthorne Street       Tucson         State / Province       AZ         4 Maiden Name (if applicable)       State / Province         3002 East Hawthorne Street       Tucson         State / Province       AZ         39 Greenhill Lane,       Stafford         Wheaton Aston       State / Province         Country       Great Britain         tralized US citizen, enter your naturalization date and number.       Date Month / Day / Y         m-US citizen already in the US, enter the type of visa you hold.       Visa Type         F-1       Alien Registration Nu         State in order, beginning with the most recent degree awarded or exity, State/Province, Country       Degree         Vame of University or College       Inclusive Dates       Degree         Vame of University or College       Inclusive Dates       Degree         Vame of University or College       Inclusive Dates       Degree         Sity, State/Province, Country       1998 - 2003       PhD       05 / 2003         nbridge, Cambridge, Great Britain       1994 - 1998       MS       06 / 1998	Paul         Maiden Name (if applicable)         Home or Institution, MailCode/Stop, Bldg,/Room, Number/Street       City         3002 East Hawthorne Street       Tucson         State / Province       AZ         Home or Institution, MailCode/Stop, Bldg,/Room, Number/Street       City         39 Greenhill Lane,       Stafford         Wheaton Aston       Stafford         country       Great Britain         aralized US citizen, enter your naturalization date and number.       Date Month / Day / Year         on-US citizen already in the US, enter the type of visa you hold.       Visa Type         Fe1       Alien Registration Number         State / Province, a copy of your alien registration number       Alien Registration Number         Sist in order, beginning with the most recent degree awarded or expected       Date         Name of University or College       Inclusive Dates       Degree       Awarded or Expected       Do         Sity, State/Province, Country       Year to Year       Degree       Awarded or Expected       Do         State / Province, Country       Year to Year       Degree       Awarded or Expected       Do         Sity, State/Province, Country       Year to Year       Degree       Awarded or Expected       Do         Sity, State/Province, Country	Paul       Maiden Name (if applicable)         Home or Institution, MailCode/Stop, Bldg,/Room, Number/Street       City       Zip (Posta         3002 East Hawthorne Street       Tucson       85716         State / Province       AZ       Country         Home or Institution, MailCode/Stop, Bldg,/Room, Number/Street       City       Zip (Posta         39 Greenhill Lane,       Xate / Province       Country         Wheaton Aston       State / Province       State / Province         Country       I       Great Britain       Great Britain         m-US citizen already in the US, enter the type of visa you hold.       Visa Type       Date Visa Status         F-1       July 19, 2003       Alien Registration Number         State / Inclusive Dates       Year to Year       Alien Registration Number         State / Degree       Awarded or Expected.       Degree Discipline / I refer to Field Refer         Name of University or College       Inclusive Dates       Degree       Mouth / Year       Degree Discipline / I refer to Field Refer         State / Province, Country       Year to Year       Degree       Pegree Discipline / I refer to Field Refer         State / Province, Country       Inclusive Dates       State / Province       Degree Discipline / I refer to Field Refer         State / Province, Country

#### All transcripts for Postdoctoral applicants must be enclosed with the application package. Honors and Awards

Title	Complete Name of Institution	Inclusive Dates
Title	including City, State/Province, Country	Year to Year
Kuiper Memorial Award for excellence in academic	Lunar and Planetary Laboratory, University of Arizona,	2002 - 2002
work and research in Planetary Science	Tucson, Arizona, USA	2002 - 2002
Galileo Circle Graduate Scholarship	University of Arizona, Tucson, Arizona, USA	2001 - 2002
Highly Commended in Young Science Writer Contest	Daily Telegraph, London, Great Britain - a national newspaper	2000 - 2000
Graduate Registration Fellowships	University of Arizona, Tucson, Arizona, USA	1999 - 2002

APPLICATIO		ION	OFFIC	FFICE USE ONLY	
	1 1	continued		Last Name	ID
Have you previously applied for	a National Academies				Year
		-			Teur
<b>NO YES</b> Select Ag Are you a former National Acad	gency from list #1 emies Research Associ	or #2			Tenure Dates Year to Year
NO YES Select Ag		or #2			
Are you also applying for an Ale	exander von Humboldt	t Foundation award a	t this time	e?	-
NO YES					
Employment – Professio	onal, Scientific, A	Administrative,	etc. L	ist in order, beginning	with most recent.
Name of Organ including City, State/Pr		Employment	Sector	Title or Academic Rank	Inclusive Dates Year to Year
University of Arizona, Tucson	n, Arizona, USA	College/Univ	versity	Research Associate	1998 - 2003
Open University, Milton Key (summer)	nes, Great Britain	College/Univ	versity	Research Consultant	2001 - 2001
NASA Goddard Spaceflight ( Maryland, USA (summer)	Center, Greenbelt,	Governm	ent	Research Assistant	2000 - 2000
Caltech, Pasadena, California		College/Univ		Research Assistant	1997 - 1997
Will you be on official leave from	n your current position	ı, to which you will re	turn?		
NO YES					
<b>Program Information</b>				-	
Number of months for which you	i are applying 12	Proposed Starting Date Month / Day / Year			7 / Year
Tenure for Senior applicants		-12 mos.	Augus	st 1, 2003	
Agency	Laboratory or	NASA Center	Pı	roposed Research Adviser	Research Opportunity Number
or NASA		GSFC	Micha	el Allison	44 30 21 B 0962
or					
or					
Field of Proposed Research. Re	efer to the Field Refe	erence List.		Code (most appropriate to Re	esearch Proposal)
Field Name Planetary Science				Code 2173	
<b>References – Professio</b>					
Enter the names, titles, and professional addresses of four (4) respondents who are familiar with your research. For recent doctoral recipients, the first name listed should be that of the thesis adviser.					search. For recent doctoral
Full Name of Respondent	ed should be that of		on al Mail	ling Address of Respondent	
					www.ord Avenue, University of
1) Stephen Bougher       Space Physics Research Laboratory, AOSS Dept, 2455 Hayward Avenue, Un Michigan, Ann Arbor, Michigan, 48109-2143, USA			iywaid Avenue, Oniversity of		
2) <b>Don Hunten</b> Lunar and Planetary Laboratory, University of Arizona, Tucson, Arizona, 857			ucson, Arizona, 85721, USA		
3) Bill Hubbard Lunar and Planetary La			ry Labora	atory, University of Arizona, T	ucson, Arizona, 85721, USA
4) Jay Melosh		Lunar and Planetar	ry Labora	atory, University of Arizona, T	ucson, Arizona, 85721, USA

# All *Reference Reports* (or Letters of Reference) must be enclosed <u>with</u> the application package. See *Instructions and Checklist*

Signature of Applicant \_\_\_\_\_ Date \_\_\_\_\_

Please also print your name -----

**Notice to the applicant:** By signing above, the applicant affirms that this information is true and complete and may be used by the The National Academies as needed to consider and administer an award. **Only original signatures are valid.** 

# **APPLICATION**

continued

## This information will not be used or appear in the evaluation process. It is for statistical purposes only and will remain confidential.

	Applicant Last or Family Name	2		First Name		
	Withers			Paul		
	Date of Birth Month / Day / Year			Place of Birth City, State/Province, Country		
APPLICANT	October 3, 1975		Tittensor, Great Britain			
	U.S. Social Security Number	Sex	1	Marital Status	Race	Ethnicity
		Male 🛛 Female 🗌	Singl	e 🛛 Married 🗌	Caucasian	Not Hispanic or Lat

	Office Phone	Home Phone
CONTACT	520 621 1507	520 327 4827
INFORMATION	Fax	E-mail
	520 621 4933	withers@lpl.arizona.edu

SPOUGE	Spouse's Last or Family Name		First Name
SPOUSE	Date of Birth Month / Day / Year	Place of Birth City, State	/Province, Country

Dependent Full Name	Date of Birth Month / Day / Year	Place of Birth City, State/Province, Country

# **APPLICATION**

		continued	Last Name	ID .
	sist us in making information avail s to learn how you initially heard al			
Please	check ONLY one of the following:			
	colleague or fellow graduate student			
	Ph.D. thesis adviser or other professor			
	university placement office			
	former or current National Academies Re	esearch Associate		
	Research Adviser or other scientific staff	at the federal Laboratory		
	National Academies staff member at profe <i>Title of Meeting</i>	essional scientific meeting	Date of Mee	ting Month / Year
	Advertisement in professional publicatio Name of Publication	n		
	Other Please Specify			
To whi	<i>ich review are you applying?</i> February			

June

October

Advisers to the Nation on Science, Engineering, and Medicine

#### **Research Associateship Programs**

ID

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# LABORATORY/CENTER REVIEW

## THE APPLICANT COMPLETES THIS SECTION.

Applicant Last or Family Nam	ne		First Name			
Withers			Paul			
Middle Name			Maiden Name (if appl	icable)		
Gareth						
Agency	Laboratory	or NA	ASA Center	R	esearch Opportu	nity Number
or NASA		GSFC			44 30 21	B 0962
Proposed Length of Tenure	1	Proposed Starting Date			Level	!
Number of Months	Me	onth / Day / Year			a	<b>—</b>
12	I	August 1, 2003		Postdoctoral Senior		
Title of Research Proposal						
Winds in Planetary Atmos						
PROPOSED RESEARCH A	DVISER INFORMATION					
Adviser Name		Adviser Offi	ce Phone	Adviser E-mail		
Michael Allison		212 - 678 - 5554			giss.nasa.gov	
Adviser Address			City		State	Zip (Postal) Code
NASA/Goddard Institute f	or Space Studies					100.55
2880 Broadway			New York		NY	10025

#### THE PROPOSED RESEARCH ADVISER COMPLETES THIS SECTION.

Please respond to all inquiries even if it is not possible to recommend the Research Proposal for review by The National Academies panels. Attach additional sheets, if necessary. Your critical comments on the scientific content of the proposed research are necessary for the evaluation process.

1) Research Adviser (name of person completing this portion of the form)

2) To which Division or Branch would the applicant be assigned (within this Agency-Laboratory/Center)? (Entering information electronically expands the field to accommodate all of the space you need.)

# LABORATORY/CENTER REVIEW

continued

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	ID
Applicant Last or Family Name	First Name
Withers	Paul

3) Discuss the scientific quality of the Research Proposal. Please address the following points: Are the objectives realistic? Is the approach sound and technically feasible? Does the Research Proposal reflect innovative thinking? Can the research be accomplished in the proposed timeframe?

4) How will the proposed research contribute to the mission of the sponsoring agency?

5) Are the facilities and equipment at the sponsoring laboratory adequate to complete the proposed research, or is funding available to obtain equipment not already in place?

6) Other comments that might be useful in the evaluation of this Research Proposal:

# LABORATORY/CENTER REVIEW

OFFICE USE ONLY ID

continued

Applicant Last or Family Name

Paul

First Name

Withers

#### **PROPOSED RESEARCH ADVISER'S RECOMMENDATION**

<b>Recommended</b> for review	<b>Not recommended</b> for review – no Laboratory	interest.
Signature of Proposed Research Adviser		Date

After completing the above portion, sign, date and forward this form to the Laboratory or Center Program Representative.

# LABORATORY/CENTER PROGRAM REPRESENTATIVE'S RECOMMENDATION

The Laboratory/Center recommends this Research Proposal for review.

The Laboratory/Center does not recommend this Research Proposal for review.

Laboratory/Center Program Representative's Comments

Signature of Laboratory/Center Program Representative

Date

#### Applications should be sent by express delivery to:

**Research Associateship Programs The National Academies** 2001 Wisconsin Avenue, NW [GR 322A] Washington, DC 20007

Phone 202-334-2760 202-334-2759 Fax E-mail rap@nas.edu www.national-academies.org/rap

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#### **Research Associateship Programs**

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# **RESEARCH PROPOSAL**

Applicant Last or Family Name	First Name
Withers	Paul
Middle Name	Maiden Name (if applicable)
Gareth	

#### **PROPOSED RESEARCH ADVISER INFORMATION**

Proposed Research Adviser	Agency	Laboratory or	NASA Center
1) Michael Allison	or NASA		GSFC
2)	or		
3)	or		
Title of Research Proposal			
Winds in Planetary Atmosphere			
Field of Proposed Research Refer to the Field Re	ference List.	<i>Code</i> (enter the code mo	st appropriate to your Research Proposal)
Field Name Planetary Science Code 21			
Brief Abstract of Research Proposal Enter	r or attach no more than 100	words.	
Characterization of winds is essential for und challenging to measure. In the initial year-lor		-	

challenging to measure. In the initial year-long period of this Associateship, I will pursue two complementary goals. I will develop an innovative technique for measuring winds using latitudinal gradients in density and apply it to upper atmospheric data from Venus and Mars. As a member of the Atmosphere Science Advisory Team for the Landing of NASA's Mars Exploration Rovers, I will analyze accelerometer and gyroscope data to derive vertical profiles of density, pressure, temperature, and winds during their entry in early 2004.

Signature of Applicant

Date

#### ATTACH DETAILED RESEARCH PROPOSAL

(maximum of 4 pages)

Use additional sheets as necessary, but do not exceed a maximum of 4 pages of no more than 500 words per page. Please sign and date each page at the bottom.

# **APPENDIX**

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#### Research Proposal

Applicant Last or Family Name	First Name
Withers	Paul

Anticipated Research Needs (Indicate special requirements necessary for you to conduct your research.) (Entering information electronically expands the field to accommodate all of the space you need.)

1) Describe activities related to the acquisition or collection of data, such as field activities, research voyages, or observatory use

Travel to 2 national two day workshops (\$1000 each), 2 national week-long conferences (\$1500), and 1 international week-long conference (\$2500) per year

#### 2) Computer resources

1 Unix workstation (\$3000 or available from Laboratory supplies), 1 laptop computer (\$2500 or available from Laboratory supplies, computer support, and software (\$300)

3) Specialized equipment

4) Other

Books, computer consumables, office supplies, publication and reprint charges, express shipping, Xerox, and long distance charges (\$1000)

Signature of Applicant Date

Advisers to the Nation on Science, Engineering, and Medicine

### PREVIOUS AND CURRENT RESEARCH to be completed by Postdoctoral applicants only

Applicant Last or Family Name		First Name		
Withers		Paul		
Middle Name		Maiden Name (if applicable)		
Gareth				
Date of Ph.D. Month/Year	Thesis Adviser			
May / 2003	Steve Bougher			
Title of Ph.D. Dissertation				
	mosphere - And Other Topics			
Status of Ph.D. Dissertation				
Published	Accepted for publication	In preparation for publication	Not to be published	

Brief abstract of Ph.D. Dissertation Enter or attach no more than 100 words.

My dissertation includes work on the martian upper atmosphere (the dominant theme), lunar crater Giordano Bruno, the northern plains of Mars, entry accelerometer data analysis, comparison of martian topography between Viking Lander and MOLA data, and simple climate models. Some has been published; the remainder is in preparation for publication. Density in the martian upper atmosphere varies regularly with longitude, unlike the Earth or early predictions for Mars. I have quantified this variability, compared it to classical tidal theory, and identified the dominant tidal modes in the upper atmosphere. I am also developing a novel technique to measure winds.

Provide a concise description of all research investigations conducted within the past five years.

Include a list of publications for the past five years, listed in the following order: 1) refereed journal articles; 2) books; 3) published proceedings; 4) non-refereed articles; and, 5) patents. Citations should include the following: a) authors; b) year of publication; c) full name of journal, d) volume number, and, e) page number(s).

#### DO NOT SEND REPRINTS

#### See attached pages

Provide a concise description of the nature of any technical or scientific affiliation that you have had, or continue to have with the Agency for which you are applying. Because one of the objectives of The National Academies Research Associateship programs is to bring new talent and ideas to the federal Laboratories, the information you provide in this section will be used by The National Academies to determine your eligibility for an award.

#### IF NO AFFILIATION, INDICATE "NONE."

I spent 10 weeks in 2000 at NASA's Goddard Spaceflight Center as part of the Goddard Summer Student Program. I am an Atmosphere Science Advisor for the Landing of NASA's Mars Exploration Rovers.

Signature of Applicant

Date

Use additional sheets as necessary. Do not exceed a maximum of 4 pages , including publications. Please sign and date each page at the bottom.

Advisers to the Nation on Science, Engineering, and Medicine

ID

# PREVIOUS AND CURRENT RESEARCH

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#### to be completed by Senior applicants only

Applicant Last or Family Name	First Name
Middle Name	Maiden Name (if applicable)

Provide a concise description of all research investigations conducted within the past five years.

Include a list of publications for the past five years, listed in the following order: 1) refereed journal articles; 2) books; 3) published proceedings; 4) non-refereed articles; and, 5) patents. Citations should include the following: a) authors; b) year of publication; c) full name of journal, d) volume number, and, e) page number(s).

#### **DO NOT SEND REPRINTS**

Provide a concise description of the nature of any technical or scientific affiliation that you have had, or continue to have with the Agency for which you are applying. Because one of the objectives of The National Academies Research Associateship programs is to bring new talent and ideas to the federal Laboratories, the information you provide in this section will be used by The National Academies to determine your eligibility for an award.

IF NO AFFILIATION, INDICATE "NONE."

Signature of Applicant \_\_\_\_\_ Date \_\_\_\_\_

Use additional sheets as necessary. Do not exceed a maximum of 4 pages, including publications. Please sign and date each page at the bottom.

Advisers to the Nation on Science, Engineering, and Medicine

#### **Research Associateship Programs**

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# **REFERENCE REPORT**

#### Respondent must return the Reference <u>to the applicant</u> -- completed, signed, and in a sealed envelope with the respondent's signature clearly written across the envelope flap.

Applicant Last or Family Name	First Name		
Field of Proposed Research	Agency	Laboratory or	NASA Center
	or		

Title of Research Proposal

#### **Applicant:** submit a brief abstract of your Research Proposal.

If you are applying to more than one Agency with different Research Proposals, please submit <u>each</u> abstract, and identify the Agency to which each refers.

Enter or attach no more than 100 words per abstract.

# **RESPONDENT'S REPLY**

Full Name & Title of Respondent	Institutional Affiliation	Institutional Affiliation		
Address	Office Phone	E-mail		
1) I have known this applicant in the following capacities (y	-			
as an undergraduate as	a teaching/research assistant	as my thesis advisee		
$\Box$ as a graduate student $\Box$ as	a professional colleague	by reputation only		
<ul> <li>2) I was acquainted with the professional work of this applicant from Month / Year</li> <li>3) I had a poor fair good excellent opportunity to observe the quality of this applicant's work.</li> </ul>				
4) The major function of this applicant is/was 🗌 research 📄 teaching 📄 administration of research 🗋 other (specify below)				
5) If the applicant is/was a student, how does he/she compared	re with students currently in y	our department?		
Lower half Upper half Top 25%	<b>Top 10%</b>	<b>Top 1%</b>		

# **REFERENCE REPORT**

continued

Applicant Last or Family Name

First Name

6) Please comment on the Applicant's scientific and technical abilities in comparison with other scientists and engineers of similar training and experience. Include in your assessment the following: a) knowledge of the field; b) skill in experimental design; c) technical abilities; d) innovative abilities; e) ability to work independently; f) analytical abilities; and, g) skills in interpreting and reporting research.

7) Please indicate	on this scale, your	overall impression	of this applicant.	(Check ONLY one.)	

Below Average	Average	Good	Excellent	Outstanding	Inadequate Opportunity to Observe

# **RESPONDENT:** Your response <u>below</u> is necessary if applicant requests information from the file.

I ask that the National Academies maintain the confidentiality of my identity to the extent permitted by law. I further ask the National Academies to maintain the confidentiality of these comments to the extent permitted by law.

I ask that the National Academies maintain the confidentiality of my identity to the extent permitted by law. I do not ask the National Academies to hold my comments in confidence.

My preparation of this Reference Report is not conditioned on the request that the National Academies hold my identity or comments in confidence.

Signature of Respondent Date

Please also print your name

Respondent must return the Reference <u>to the applicant</u> -- completed, signed, and in a sealed envelope with the respondent's signature clearly written across the envelope flap.

Rev. 09/2002

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