

FY 2001/2002
USDA Food and Agricultural Sciences
National Needs Graduate Fellowship Grants Program

Annual Program Summary

Higher Education Programs
Science and Education Resources Development
Cooperative State Research, Education, and Extension Service
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Initiated in FY 1984, the USDA Food and Agricultural Sciences National Needs Graduate Fellowship Grants Program is designed to help meet the Nation's ongoing need for food and agricultural scientific and professional expertise. The fellowships are intended to encourage outstanding students to pursue and complete graduate degrees in critical areas of national need. The national need areas supported include: Biotechnology -- Animal; Biotechnology -- Plant; Engineering--Food, Forest Products, or Agricultural; Human Nutrition and/or Food Science; Marketing or Management--Food, Forest Products, or Agribusiness; and Water Science. Prior to FY 2001, the program has supported the graduate degree programs of approximately 1116 graduate students in these national need areas.

For the combined Fiscal Years 2001-2002, approximately \$5.6 million were available to fund the program. All U.S. colleges and universities that confer a doctoral degree in one or more of the food and agricultural sciences areas targeted for national need fellowships were eligible to apply. The available funds were distributed almost evenly across all six national need areas.

A total of 37 different institutions from 34 States submitted 80 proposals for consideration for funding. A summary of the number of proposals received, the number of graduate fellowships requested, and the total funds requested in each national need area is presented in Table 1.

Based on peer review, 24 proposals were selected for funding. These 24 grants will support the recruitment and three years of education for 82 doctoral fellows at 23 institutions in 22 States. A summary of the number of proposals funded, the number of graduate fellowships granted, and the funds awarded in each national need area is presented in Table 2.

Specific information on the FY 2001-2002 Fellowships grants, by national need area, including universities and departments or colleges, principal project directors, number of fellows supported, and the funds awarded in each grant are presented in Tables 3.a. through 3.g. Table 4 presents the institutional summary data by State.

Table 1. Funding Requests by National Need Area

<u>National Need Area</u>	<u>No. Proposals Received</u>	<u>No. Fellows Requested</u>	<u>Funds Requested</u>
Animal, Plant, Microbial Molecular Biology Including genomics or bioinformatics	24	91	\$6,279,000.00
Agricultural Systems or Natural Resource Engineering	11	35	2,415,000.00
Food Science	11	39	2,691,000.00
Human Science and Nutrition	11	40	2,760,000.00
Marketing or Management	12	37	2,549,000.00
Natural Resources & Environment	11	37	2,537,029.00
Total	----- 80	----- 279	----- \$19,231,029.00

Table 2. Funding Decisions by National Need Area

<u>National Need Area</u>	No. Proposals <u>Funded</u>	No. Fellows <u>Granted</u>	Funds <u>Awarded</u>
Animal, Plant, Microbial Molecular Biology Including genomics or bioinformatics	4	14	\$966,000
Agricultural Systems or Natural Resource Engineering	4	13	897,000
Food Science	4	14	966,000
Human Science and Nutrition	4	14	966,000
Marketing or Management	4	14	966,000
Natural Resources & Environment	4	13	897,000
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Total	24	82	\$5,658,000

Table 3.a. Fellowship Grants: Animal, Plant, Microbial Molecular Biology

<u>University and Department or College</u>	<u>Principal Project Director</u>	<u>Number of Fellows Supported</u>	<u>Funds Awarded</u>
Iowa State University Department of Animal Sciences	Christopher K. Tuggle	4	\$276,000
University of California - Berkeley Department of Plant and Microbial Biology	Steven E. Lindow	4	276,000
Texas A&M University Department of Veterinary Pathology	Thomas Ficht	4	276,000
University of Minnesota Plant Biological Science Dept.	David Marks	2	138,000
	Total	----- 14	----- \$966,000

Table 3.b. Fellowship Grants: Agricultural Systems and Natural Resource Engineering

<u>University and Department or College</u>	<u>Principal Project Director</u>	<u>Number of Fellows Supported</u>	<u>Funds Awarded</u>
University of Nebraska Department of Biological Systems Engineering	Derrel L. Martin	4	\$276,000
University of Kentucky Bio-systems and Agricultural Engineering	Fred A. Payne	3	207,000
University of Arizona Department of Agricultural & Bio-systems Engineering	Peter M. Waller	4	276,000
University of Maryland Biological Resources Eng. Dept.	Adel Shirmohammadi	2	138,000
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	Total	13	\$897,000

Table 3.c. Fellowship Grants: Food Science

<u>University and Department or College</u>	<u>Principal Project Director</u>	<u>Number of Fellows Supported</u>	<u>Funds Awarded</u>
Michigan State University Department of Food Science	Linda S. Mansfield	4	\$276,000
Cornell University Department of Food Science	Kathryn J. Boor	4	276,000
Washington State University Department of Food Science & Human Nutrition	Barbara Rasco	4	276,000
Rutgers University Department of Food Science	Richard D. Ludescher	2	138,000
	Total	----- 14	----- \$966,000

Table 3.d. Fellowship Grants: Human Science / Nutrition

<u>University and Department of College</u>	<u>Principal Project Director</u>	<u>Number of Fellows Supported</u>	<u>Funds Awarded</u>
University of Illinois at Urbana Department of Nutrition Sciences	Sharon M. Donovan	4	\$276,000
University of California - Davis Department of Nutrition	Kathryn G. Dewey	4	276,000
University of Connecticut Department of Nutrition Science	Carol J. Lammi-Keefe	4	276,000
Louisiana State University School of Human Ecology	Pamela A. Monroe	2	138,000
	Total	----- 14	----- \$966,000

Table 3.e. Fellowship Grants: Marketing or Management

<u>University and Department or College</u>	<u>Principal Project Director</u>	<u>Number of Fellows Supported</u>	<u>Funds Awarded</u>
North Carolina State University Agricultural & Resources Economics	Walter N. Thurman	4	\$276,000
Kansas State University Agricultural Economics	Ted C. Schroeder	2	138,000
Purdue University Department of Agricultural Economics	Joan R. Fulton	4	276,000
University of Missouri Department of Agricultural Economics	Michael L. Cook	4	276,000
	Total	----- 14	----- \$966,000

Table 3.f. Fellowship Grants: Natural Resources and Environment

<u>University and Department or College</u>	<u>Principal Project Director</u>	<u>Number of Fellows Supported</u>	<u>Funds Awarded</u>
Colorado State University The Water Center	Jim C. Lofts	3	\$207,000
Virginia Tech Biological Systems Engineering	Andrea M. Dietrich	4	276,000
University of Delaware Plant and Soil Sciences Dept.	J. Thomas Sims	4	276,000
University of Minnesota Soil, Water, and Climate Dept.	Dong Wang	2	138,000
	Total	----- 13	----- \$897,000

Table 4. Institutions Awarded Fellowship Grants by State

<u>State</u>	<u>Institution</u>	<u>Number of Fellows Supported</u>	<u>Funds Awarded</u>
AZ	University of Arizona	4	\$ 276,000
CA	University of California - Berkley	4	276,000
CA	University of California - Davis	4	276,000
CO	Colorado State University	3	207,000
CT	University of Connecticut	4	276,000
FL	University of Delaware	4	276,000
IL	University of Illinois	4	276,000
IA	Iowa State University	4	276,000
IN	Purdue University	4	276,000
KS	Kansas State University	2	138,000
KY	University of Kentucky	3	207,000
LA	Louisiana State University	2	138,000
MD	University of Maryland	2	138,000
MI	Michigan State University	4	276,000
MN	University of Minnesota	4	276,000
MO	University of Missouri	4	276,000
NC	North Carolina State University	4	276,000
NE	University of Nebraska	4	276,000
NJ	Rutgers, The State University of New Jersey	2	138,000
NY	Cornell University	4	276,000
TX	Texas A&M University	4	276,000
VA	Virginia Tech	4	276,000
WA	Washington State University	4	276,000
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	Total	82	\$5,658,000