

AVAILABILITY OF
BIOTECHNOLOGY RESOURCES DIRECTORY
DIVISION OF RESEARCH RESOURCES

NOTICE

A 56-page directory describing the biotechnology resources of the National Institutes of Health's Division of Research Resources (DRR) has been published and is available free.

Titled *Biotechnology Resources, a Research Resources Directory*, the booklet identifies current DRR grantee facilities which may be used by biomedical researchers. These resources provide the national biomedical community with new technologies and procedures for the conduct of biomedical research investigations.

Facilities supported by the Biotechnology Resources Program include large-scale and mini-computer systems, biochemical and biophysical instruments (mass spectrometers, nuclear magnetic resonance spectrometers, electron spin resonance spectrometers), million-volt electron microscopes, electron microprobes, biomedical engineering technologies, and production of biochemical and cellular materials.

The Directory details the instruments, services, and current research applications at the 56 individual resources listed. Complete names, addresses, and phone numbers of the Principal Investigators and User Contact Persons are also included.

A geographical index is provided, listing available resources by state and within each state.

A single free copy of *Biotechnology Resources, a Research Resources Directory* may be secured by writing to the Research Resources Information Centers, 1776 East Jefferson Street, Rockville, Maryland 20852, or by request from the Office of Science and Health Reports, Division of Research Resources, National Institutes of Health, Bethesda, Maryland 20014.

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NIH MANPOWER REPORT



(FORM NIH-1749, REV. 1-77)

The *NIH Guide for Grants and Contracts*, Vol. 5, No. 6, May 28, 1976, announced reduction in reporting requirements for the NIH Manpower Report (NIH-1749). The National Institutes of Health has further simplified the Manpower Report in a new form, dated REV. 1-77. A major change is that personal identifying information no longer is requested. Whereas the names and social security numbers of individuals had been requested on previous forms, only positions or job titles are now to be listed. The new form also reflects the elimination in May 1976 of the requirement for information about other sources of income and data concerning unpaid staff. (See Attachment.)

The Manpower Report, required of all research grantees and contractors, provides information about numbers and types of positions for which salary was provided from the grant or contract during each reporting period. This information constitutes a unique resource for the planning efforts directed to achieving balance between supply and demand of biomedical personnel. One such effort is the continuing study undertaken by the National Academy of Sciences in consultation with the Director, NIH.

The Manpower Report will not be made part of the official grant or contract file; the data are not for the purposes of evaluation or audit of individual projects.

Until new forms are available, NIH will accept the Manpower Report form dated Rev. 3-74.

Grantees submit a report for each budget period. NIH will make the form available approximately 4 months before end of the current budget period in time to be completed and submitted with the continuation application for the following budget period. Thus, grantees will need to make some estimates for the balance of the budget period on the report. The report form covering the terminal budget period of the grant is mailed directly to the principal investigator approximately 1 month prior to the end of the budget period. It should be completed and returned within 1 month after the final budget period to the address shown below.

Contractors submit a report for each 12-month interval of the contract, for a final interval of less than 12 months, and for any contract for which the total performance period is less than 12 months. Blank forms containing the dates of the report period will be distributed by the NIH to the contractor approximately 1 month prior to the end of each reporting period. Contractors shall submit the report to the address shown below within 1 month after the end of the reporting period.

Both grantees and contractors submit negative reports when no direct salary costs are involved in the grant or contract.

Further information and additional report forms may be obtained from: Reports, Analysis, and Presentations Section, Division of Research Grants, National Institutes of Health, Room 1A10, 5333 Westbard Avenue, Bethesda, Maryland 20016.

This supersedes Vol. 5, No. 6, p. 9, dated May 28, 1976.

<p style="font-size: x-small;">FORM APPROVED O.M.B. NO. 68-R1209</p> <p style="text-align: center; font-weight: bold;">DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE NATIONAL INSTITUTES OF HEALTH</p> <p style="text-align: center; font-weight: bold;">MANPOWER REPORT</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">GRANT OR CONTRACT NUMBER</td> <td style="width: 50%; padding: 2px;">BUDGET PERIOD OR REPORTING PERIOD</td> </tr> <tr> <td colspan="2" style="padding: 2px;">PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR</td> </tr> <tr> <td colspan="2" style="padding: 2px;">GRANTEE OR CONTRACTOR ORGANIZATION NAME</td> </tr> </table>	GRANT OR CONTRACT NUMBER	BUDGET PERIOD OR REPORTING PERIOD	PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR		GRANTEE OR CONTRACTOR ORGANIZATION NAME	
GRANT OR CONTRACT NUMBER	BUDGET PERIOD OR REPORTING PERIOD						
PRINCIPAL INVESTIGATOR OR PROGRAM DIRECTOR							
GRANTEE OR CONTRACTOR ORGANIZATION NAME							

THIS REPORT IS REQUIRED FROM ALL RECIPIENTS OF NIH RESEARCH GRANTS AND CONTRACTS AND PERTAINS TO ALL PERSONS RECEIVING ANY SALARY FROM THE DIRECT COST AWARDED FOR THIS GRANT OR CONTRACT DURING THE REPORTING PERIODS DEFINED BELOW. NEGATIVE REPORTS ARE REQUIRED FOR GRANTS AND CONTRACTS WITH NO SALARY PAID FROM DIRECT COSTS AWARDED.

REPORTING PERIODS

GRANTS: A report is required for each budget period. Since the report for grants is submitted with the noncompeting continuation application, estimates should be included for the balance of the budget period. (See HOW TO SUBMIT REPORT below.)

CONTRACTS: A report is required for each 12 month interval of project performance. If the final interval of performance is less than 12 months, the final report will cover this period. A report is also required for contracts in which the total performance period is less than 12 months.

SPECIFIC INSTRUCTIONS

SECTIONS 1, 2 and 3 - Enter individually (one line per person) information for each professional person (excluding consultants) who receive any salary from the grant or contract during the period specified. The "Number of Weeks Worked," (Column f), consists of the weeks worked where salary was paid. Count each week regardless of the number of hours worked. Do not report percent of effort. Reproduce page 4 if continuation pages are necessary.

SECTION 4 - ALL OTHER STAFF: Enter, collectively, the total number of persons in each of the four categories shown who receive any salary from the grant or contract during the period specified. "Total Manweeks," (Column j), shall consist of the number of manweeks all persons shown in Column i worked. Manweeks are computed on the basis of 40 hours a week or the accepted work week in the recipient organization if it is less than 40 hours.

SECTION 5 - TOTAL SALARIES: The amount given shall be the sum of the professional salaries and the salaries reported for the "All Other Staff." If continuation pages have been used, be sure to include the salaries of all positions listed on those pages.

DEFINITIONS

PROFESSIONAL: Individuals who hold positions that normally: (1) require a baccalaureate, equivalent, or higher degree, and (2) are considered by the recipient organization as performing professional work. Exclude all consultants.

Faculty Status: All professional persons receiving any salary from this grant or contract, including temporary, part-time and retired who hold appointments designated as "faculty" by an institution of higher education.

Nonfaculty: All professional persons receiving any salary from this grant or contract who do not hold appointments designated as "faculty" by an institution of higher education. This includes all nonfaculty professional staff employed by nonacademic institutions (independent hospitals, research institutes, nonprofit foundations, and private companies). Postdoctorals considered as primarily in a training status are to be reported under "In Training Status."

In Training Status: Include only those individuals who, while receiving any salary from the grant or contract, are considered to be in a predoctoral or postdoctoral training status. Be sure to include: (1) graduate students registered in institutions of higher education for study leading to an academic (e.g., PHD, ScD, MA, MS, MPH, or equivalent) or professional (e.g., MD, DDS, DVM, or equivalent) degree; (2) predoctoral students working on their dissertations; (3) individuals who already have an academic or professional doctorate but are considered as being primarily in a training status; (4) residents and interns. Undergraduate students are to be counted in Section 4, "All Other Staff."

ALL OTHER STAFF: All other personnel receiving any salary from this grant or contract. Include undergraduate students. Exclude all consultants.

SALARIES: Payments for salaries and wages from direct cost. Exclude employer payments for social security and other fringe benefits.

HOW TO SUBMIT REPORT

GRANTS: Grantees shall prepare the report to coincide with the preparation of the noncompeting continuation grant application, and shall submit it as part of the application. The report covering the terminal period shall be mailed directly to the address shown below within 30 days after the end of the project period.

CONTRACTS: Contractors shall submit the completed report to the address shown below within 30 days after the end of the reporting period defined above.

Additional report forms and information for completion of the report may be obtained from:

DIVISION OF RESEARCH GRANTS
NATIONAL INSTITUTES OF HEALTH
5333 WESTBARD AVENUE, ROOM 1A10
BETHESDA, MARYLAND 20016
Telephone: (301) 496-7263

CODE SHEET

DEGREE CODES: IDENTIFY HIGHEST DEGREE HELD (COLUMN c) AND DEGREE SOUGHT (COLUMN d)

- | | |
|-------------------|--|
| 1. Degree unknown | 5. PhD, ScD, D. Eng, DPH or equivalent foreign or domestic academic degree |
| 2. No degree | 6. MD, OD, DDS, DVM or equivalent foreign or domestic professional degree |
| 3. Baccalaureate | 7. MD and PhD (any combination of both academic and professional doctorates) |
| 4. Masters | |

FDS CODE FOR WORK PERFORMED ON GRANT OR CONTRACT: Identify in Column e the field, discipline, or specialty in which individual worked on project (NEC = Not elsewhere classified)

Basic Medical and Biological Sciences

- A Anatomy, Neuroanatomy
- A2 Anatomy, NEC
- A3 Bacteriology
- A4 Biochemistry, Enzyme/Metabolism
- A5 Biochemistry, Hormone/Vitamin
- A6 Biochemistry, Protein/Amino Acid
- A7 Biochemistry, NEC
- A8 Biology, Developmental
- B1 Biology, NEC
- B2 Biophysics, Molecular Structure
- B3 Biophysics, NEC
- B4 Botany
- B5 Cell Biology, Molecular
- B6 Cell Biology, NEC
- B7 Ecology
- B8 Entomology
- C1 Genetics, Biochemical and Molecular
- C2 Genetics, NEC
- C3 Immunology
- C4 Medical, General
- C5 Microbial Biochemistry
- C6 Microbiology, NEC
- C7 Nutrition
- C8 Parasitology
- C9 Pathology, Experimental
- D1 Pathology, NEC
- D2 Pharmacology
- D3 Physiology, Cardiovas. & Pulmonary
- D4 Physiology, Endocrine
- D5 Physiology, Gastrointestinal
- D6 Physiology, Neuro and Muscular
- D7 Physiology, Renal
- D8 Physiology, NEC
- E1 Pre dental
- E2 Pre medical
- E3 Radiation, Nonclinical
- E4 Virology
- E5 Zoology
- E9 Other Basic Biomedical Sciences

Internal Medicine: Clinical

- F1 Allergy
- F2 Cardiovascular Diseases
- F3 Endocrinology
- F4 Gastroenterology
- F5 Hematology
- F6 Immunology
- F7 Infectious Diseases
- F8 Internal Medicine, General
- G1 Metabolism
- G2 Pulmonary Diseases
- G3 Renal Diseases
- G9 Other Internal Medicine

Clinical Medicine (Except Internal)

- H1 Anesthesiology
- H2 Chemotherapy, Cancer
- H3 Chemotherapy, Other
- H4 Dermatology
- H5 Neurology
- H6 Nuclear Medicine
- H7 Obstetrics and Gynecology
- H8 Oncology
- I1 Ophthalmology
- I2 Osteopathy
- I3 Otorhinolaryngology
- I4 Pediatrics, Cardiology
- I5 Pediatrics, NEC
- I6 Pharmacology, Clinical
- I7 Physical Medicine & Rehabilitation
- I8 Preventive Medicine & Public Health
- J1 Psychiatry
- J2 Radiology, Diagnostic
- J3 Radiology, Therapeutic
- J4 Radiology, NEC
- J5 Surgery, Cardiovascular
- J6 Surgery, General
- J7 Surgery, Neurological
- J8 Surgery, Orthopedic
- K1 Surgery, Plastic
- K2 Surgery, Thoracic
- K3 Dentistry, NEC
- K4 Tropical Medicine
- K5 Urology
- K9 Other Clinical Medicine

Dentistry

- L1 Clinical Dentistry, Cleft Palate
- L2 Clinical Dentistry, Oral Pathology
- L3 Clinical Dentistry, Oral Surgery
- L4 Clinical Dentistry, Periodontia
- L5 Dentistry, General
- L9 Other Dental Specialties

Behavioral and Social Sciences

- M1 Anthropology
- M2 Economics
- M3 Psychology, Clinical
- M4 Psychology, Developmental
- M5 Psychology, General & Experimental
- M6 Psychology, Physiological
- M7 Psychology, NEC
- M8 Sociology
- M9 Other Behavioral & Social Sciences

Other Health-Related Fields

- N1 Audiology & Speech Therapy
- N2 Dental Hygiene
- N3 Dietetics
- N4 Epidemiology
- N5 Health Administration
- N6 Nursing
- N7 Optometry
- P1 Pharmacy
- P2 Physical Therapy
- P3 Social Work
- P4 Veterinary Medicine
- P9 Other Health-Related Fields

Environmental Sciences and Engineering

- Q1 Air and Water Pollution
- Q2 Engineering
- Q3 Engineering, Biomedical
- Q4 Engineering, Environmental
- Q9 Other Environmental Sciences

Mathematics, Statistics, and Computer Sciences

- R1 Biostatistics
- R2 Computer Applications
- R3 Computer & Information Systems
- R4 Mathematics
- R5 Statistics
- R9 Other Math. and Stat.

Physical Sciences

- S1 Chemistry, Inorganic
- S2 Chemistry, Organic
- S3 Chemistry, Medicinal
- S4 Chemistry, Physical
- S5 Chemistry, NEC
- S6 Physics
- S9 Other Physical Sciences

Other Fields

- T1 Arts and Humanities
- T2 Audio-Visual
- T3 Education
- T4 Library Science
- T9 Other, Specify _____

NAME AND TITLE OF PERSON COMPLETING FORM

TELEPHONE (Include Area Code, Number and Extension)



CONFLICT OF INTEREST

During the past several months considerable public attention has been directed to apparent or real conflicts of interest implicating Federal grantees and other recipients of Federal funds. In only a few instances have NIH or PHS grantees been involved. It is important to the PHS that this generally excellent record be maintained.

Since July 1974 PHS grants policy has required grantees to establish written institutional guides indicating the conditions under which outside activities, relationships, or financial interest are proper or improper for their employees, consultants, or members of their governing boards.

Grantees receiving NIH support are requested to review with all affected personnel their institutional conflict of interest guidelines and to assure compliance.

NATIONAL RESEARCH SERVICE AWARDS

FOR

INDIVIDUAL POSTDOCTORAL FELLOWSHIPS

NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES

A N N O U N C E M E N T

The National Institute of Environmental Health Sciences (NIEHS) announces the availability of individual National Research Service Awards (NRSA) for post-doctoral research training in environmental health.

Individual Postdoctoral Fellowships are available to recipients of a doctoral degree who are United States citizens or non-citizens who have been admitted for permanent residence. Research training should be in the areas listed below. Applicants must be sponsored by an investigator at a domestic or foreign nonprofit private or public institution including the National Institutes of Health (NIH) and the Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA) that has the staff and facilities to provide the desired training. Applications for training outside the United States require a detailed justification of the need to study abroad based on unique facilities and/or training opportunities. Stipends range between \$10,000 and \$13,200 for the first year of postdoctoral research training depending on the years of relevant postdoctoral experience. Application kits for individual NRSA fellowships can be obtained through university business offices or the Division of Research Grants, NIH, Bethesda, Maryland 20014.

Receipt dates for individual NRSA's are October 1, February 1, and June 1 with a review cycle of eight months. Therefore, applications received by October 1, 1977, which are recommended for funding in the subsequent reviews may be eligible for initiation after the National Advisory Environmental Health Sciences Council meeting in May 1978.

The NIEHS extramural training program has the goal of producing individuals who, through research, will generate new knowledge about the potential hazards to man of exposure to environmental agents. The NIEHS mission focuses on human health. Therefore, the following areas of training are within the Institute's scope and authority, and Fellowship applications are invited.

1. Environmental Toxicology Fellows in this area should receive research training in pharmacological and toxicological principles which determine the effects of exposure to environmental agents. Pharmacokinetic and pharmacodynamic factors, cellular and molecular mechanisms of action, synergism, species variability in toxic response, and test development, design, and interpretation are all facets of this training area.
2. Environmental Pathology Fellows in this area should focus their research training on factors involved in chemical (as opposed to infectious disease) pathology. Typically, applicants hold professional or academic degrees which qualify them for advanced training in gross and histopathological research.
3. Environmental Mutagenesis, Teratogenesis, and Carcinogenesis Fellows in these areas apply the basic principles of genetics, embryology, and biochemistry to applied studies aimed toward assessing the potential genetic or reproductive hazards to man of environmental chemicals. Carcinogenesis training should be applied in nature, focusing on the assessment of specific mechanisms of action rather than on basic studies of the carcinogenesis process.
4. Environmental Epidemiology and Biostatistics Fellows in epidemiology receive research training stressing noninfectious disease epidemiology with an emphasis on the identification of causes of environmental disease using statistical and mathematical tools. Biostatistics Fellows focus on applying mathematical and statistical tools to assist environmental health scientists in experimental design and interpretation.

For additional information see *NIH Guide for Grants and Contracts*, Vol. 6, No. 2 January 12, 1977, or contact:

Dr. Christopher Schonwalder
Program Manager
Research Training Programs
National Institute of Environmental
Health Sciences
Research Triangle Park, North Carolina 27709

Telephone: (919) 541-3350

YOUNG INVESTIGATORS RESEARCH GRANTS

NATIONAL CANCER INSTITUTE

A N N O U N C E M E N T

The National Cancer Institute has established a Young Investigators Research Grants Program to support new initiatives and early stages of cancer-relevant research by newly trained investigators. Up to \$25,000 per year in direct costs for periods not to exceed three years will be provided for exploratory research involving testing the feasibility of new techniques or approaches, performing developmental or pilot experiments, and gathering and analyzing preliminary data. Both clinical and basic studies are encouraged. Applications must have clear relevance to one of the following National Cancer Institute Programs: Carcinogenesis, Clinical Oncology, Detection and Diagnosis, Drug Development and Pharmacology, Epidemiology, Immunology, Radiation Therapy, Radiation Biology and Physics, Tumor Biology, and Viral Oncology. It is expected that this will be a highly competitive program and that approximately 25 new awards will be made per year.

Eligibility An applicant must have obtained a doctoral level degree no more than 4 years prior to the date of application or have completed a clinical residency within 2 years prior to the date of application. Funds may not be used to supplement other federally supported projects. An applicant must not have previously received a Research Career Development Award nor have been the principal investigator on an NIH grant or contract or equivalent; however, NIH fellows or trainees are not excluded. The applicant must agree to devote at least 50% time and effort to the project.

Policies and Procedures Except where otherwise stated in this announcement, the policies which apply to NIH research project grants also apply to New Initiative Awards.

Not over \$15,000 of the annual budget may be utilized toward support of the principal investigator's salary and fringe benefits. Salary requested must not exceed the amount justified by time and effort to be devoted to the project. Other allowable direct costs include technicians' salaries, supplies, equipment, travel, consultants' fees, and any other items allowable in budgets for traditional research grants.

Indirect costs will be provided in accordance with established HEW policies for regular research grants.

Awards will be made to foreign institutions only under very unusual circumstances, generally where unique capability available at a foreign institution is essential for the project.

Young Investigators Research Grants may not be for more than 3 years; applications for grant support beyond this period will be treated as renewal applications in the traditional research grants program.

Application and Review Applicants should use the regular research grant application Form NIH 398 which is available at a central application control office in the applicant institution. The face page of the application and the folder in which it is submitted must be clearly labeled (in red ink) Young Investigators Research Grant.

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Applications may be submitted to the Division of Research Grants (DRG), NIH, for the regular new research project grant deadlines (November 1, March 1, and July 1). Applications received too late for one round will be considered in the following round. They will be screened by DRG staff for relevance to programs of the National Cancer Institute. The scientific and technical merit review will be conducted by appropriate DRG study sections. Successful applicants may plan to initiate their research as early as six months after the receipt date that they met.

Questions or requests for further information should be addressed to the staff of the NCI program area to which the research will be directed. Additional information and appropriate referral to NCI programs can be obtained from the Referral Officer, NCI, DCRRC, telephone (301) 496-7903.