

## SENIOR ENGINEERS

## AND PHYSICISTS

## FOR SEMICONDUCTOR R & D

Expansion of advanced research and development activity at the Semiconductor Division of Hughes Products (Hughes Aircraft Co.) has created several openings for senior men capable of assuming the direction of important new programs. Openings include:

**DEVICE DEVELOPMENT PHYSICIST**—to work on new device programs with responsibility for fabrication processes, device theory and analysis or device testing and evaluation. He must have an M.S. or Ph.D. in Physics and several years experience in the development of semiconductor devices.

**EXPERIMENTAL DEVICE STUDY PHYSICIST**—to do theoretical and/or experimental research on advanced exploratory solids for the devices on a long range study basis. He will work on his own project or in conjunction with other physicists on basic device study, leading to the first model of a new device. Position requires an M.S. or Ph.D. in Physics and several years experience in the experimental research on advanced semiconductor devices.

Recently completed ultramodern facilities of the Semiconductor Division are located in Newport Beach, California—just south of Los Angeles. Here you will find choice suburban living in the heart of Western electronics.

If you meet the requirements for the above positions, or if you are a senior engineer or physicist with experience in the field of semiconductors, we invite your inquiry. Please contact:

Mr. C. L. M. Blocher  
Scientific Staff Representative  
**HUGHES SEMICONDUCTOR DIV.**  
500 Superior Avenue  
Newport Beach 5, California

**HUGHES PRODUCTS**

SEMICONDUCTOR DIVISION  
HUGHES AIRCRAFT COMPANY

# Calendar

Material for inclusion in the calendar and meeting sections should be received 6 weeks prior to the date of the issue in which it is to appear. Further information can be obtained by writing to the addresses indicated in parentheses.

## August

- 17 Nat'l Ultrasonics Symp., Stanford U. (V. Salmon, Stanford Research Inst., Menlo Park, Calif.)
- 18-21 Western Electronic Show & Convention, San Francisco (WESCON, 1435 S. La Cienega Blvd., Los Angeles 35, Calif.)
- 23-25 Fracture of Engineering Materials Conf. spons'd by ASM Eastern N. Y. Chap. at Rensselaer Polytechnic Inst., Troy (J. S. Keeler, GE Research Lab, Schenectady, N. Y.)
- 24-29 Internat'l Optical Comm. of IUPAP, 5th Plenary Session & Symp. on Modern Systems for Detecting & Evaluating Optical Radiation, Stockholm (E. Ingelstam, Royal Inst. of Technology, Stockholm 70, Sweden)
- 24-29 Internat'l Cong. of Polarography, U. of Cambridge (Mrs. B. Lamb, Evershed & Vignoles, N. Circular Rd., London, N. W. 10, England)
- 27-29 American Physical Society, U. of Hawaii, Honolulu (W. A. Nierenberg, U. of Calif., Berkeley 4, Calif.)
- 30-6 History of Science, 9th internat'l cong., Barcelona & Madrid (J. Vernet, Via Layetona 141, Barcelona, Spain)
- 30-6 Internat'l Cong. of IUPAC & Thermodynamics & Experimental Thermodynamics Symp., Munich, Germany (Div. of Chem. & Chem. Technology, Nat'l Research Council, Washington 25, D. C.)
- 30-12 Internat'l Oceanographic Cong. spons'd by AAAS, Unesco, ICSU, in NYC (M. Sears, Woods Hole Oceanographic Inst., Woods Hole, Mass.)
- 31-2 Free Radical Stabilization, 4th internat'l symp., NBS, Wash., D. C. (A. M. Bass, Nat'l Bureau of Standards, Washington 25, D. C.)
- 31-2 Properties of Elemental & Compound Semiconductors Conf., Statler Hotel, Boston, Mass. (Metallurgical Soc. of AIME, 29 W. 39 St., New York 18, N. Y.)
- 31-2 Stratospheric Meteorology Conf., Minneapolis, Minn. (Am. Meteorological Soc., 3 Joy St., Boston 8, Mass.)
- 31-5 Internat'l Plasma Physics Inst. spons'd by U. of Wash. & Boeing Sci. Res. Labs at U. of Wash. By invitation. (J. E. Drummond, Boeing Sci. Res. Labs, Box 3707, Seattle 24, Wash.)
- 31-5 Internat'l Astronautical Cong., Church House, London (British Interplanetary Soc., 12 Bessborough Gardens, London, S. W. 1, England)
- 1-8 3rd Internat'l Cong. on Acoustics, spons'd by Internat'l Comm. on Acoustics & IUPAP, Stuttgart (E. Zwicker, Breitscheidstr. 3, Stuttgart N, Germany)
- 2-4 1959 Cryogenic Engineering Conf., U. of Calif., Berkeley (K. D. Timmerhaus, U. of Colo., Boulder, Colo.)
- 2-4 Crystal Imperfections & Chemical Reactivity of Solids, Kingston, Ont., Canada (Faraday Soc., 6 Gray's Inn Sq., London, W. C. 1, England)
- 6-12 Standards on a Common Language for Machine Searching & Translation, internat'l conf., Tudor Arms Hotel, Cleveland (Center for Documentation & Communication Research, Western Reserve U., Cleveland 6, Ohio)
- 7-12 European Molecular Spectroscopy Group, Bologna, Italy (R. Mecke, U. of Freiburg, Freiburg, Germany)
- 9-11 Midwestern Conf. on Fluid & Solid Mechanics spons'd by 14 organizations incl. AIP & APS at U. of Tex. (M. J. Thompson, U. of Texas, Austin 12, Tex.)
- 9-11 Color Centers in Alkali Halides, internat'l symp. spons'd by Ore. State Col., ONR, NSF, AFOSR at Ore. State Col. (A. B. Scott, Ore. State Col., Corvallis, Ore.)
- 9-12 Electron Microscopy Soc. of Am., ann. mtg., Ohio State U. (S. S. Breese, Jr., Plum Island Animal Disease Lab, Greenport, L. I., N. Y.)
- 10-12 Calorimetry Conf., Yale U., New Haven, Conn. (J. P. McCullough, Bureau of Mines, Box 1321, Bartlesville, Okla.)
- 14-16 Quantum Electronics—Resonance Phenomena, internat'l conf. spons'd by ONR at Shawanga Lodge, Bloomington, N. Y. (C. H. Townes, Columbia U., New York 27, N. Y.)
- 14-19 8th Internat'l Spectroscopy Colloq., Lucerne (8th Colloq. Spectroscopicum Internat'le, P. O. Box, Schaffhausen, Switzerland)
- 14-19 High-Energy Accelerators & Their Instrumentation, IUPAP conf., by invitation, CERN (CERN, Geneva 23, Switzerland)
- 17-18 Nuclear Radiation Effects on Semiconductor Devices, Materials, & Circuits, Western Union Auditorium, NYC (B. Reich, ECRD, USASRDL, Fort Monmouth, N. J.)
- 17-18 Radiofrequency Spectroscopy Group conf. on free atoms & molecules, Clarendon Lab (B. Bleaney, Clarendon Lab, Oxford, England)
- 20-25 Instrument Soc. of Am., ann. conf. & exhibit, Chicago, Ill. (ISA, 313 Sixth Ave., Pittsburgh 22, Pa.)
- 22-24 Magnetism Conf. spons'd by British Inst. of Physics, Sheffield (The Inst. of Physics, 47 Belgrave Sq., London, S. W. 1, England)
- 22-24 Industrial Nuclear Technology Conf. spons'd by Armour Research Found. & Nucleonics mag., Morrison Hotel, Chicago (L. Reiffel, Armour Research Found., 10 W. 35 St., Chicago 16, Ill.)

## September

- 1-2 Phys. Chem. in Aerodynamic & Space Space Flight Conf. spons'd by AFOSR & GE Missile & Space Vehicle Dept. at U. of Pa., Philadelphia (A. L. Myerson, GE Missile & Space Vehicle Dept., 3198 Chestnut St., Philadelphia 4, Pa.)
- 1-3 Assoc. for Computing Machinery conf., Mass. Inst. of Technology (F. M. Verzuh, MIT, Cambridge 39, Mass.)

PHYSICS TODAY



- 23-25 Residual Gases in Electron Tubes & related High Vacuum Systems, internat'l symp., Como (P. della Porta, Via Gallarate, 215, Milan, Italy)
- 28-30 Telemetering Symp. spons'd by IRE Prof. Group on Space Electronics & Telemetry, San Francisco (G. L. Larse, Lockheed Missile Systems Div., Sunnyvale, Calif.)
- 28-1 Instrument Symp. & Research Equipment Exhibit, Nat'l Inst. of Health (J. B. Davis, Nat'l Inst. of Health, Bethesda 14, Md.)
- ? Internat'l Computer Conf., Moscow, USSR (I. S. Mukhin, Inst. of Exact Mechanics & Computation Technology, Lenin Prospect 51, Moscow, USSR)

#### October

- 1-3 Neutron Capture Reactions, conf. spons'd by APS at Los Alamos (H. T. Motz, Los Alamos Scientific Lab, Los Alamos, N. M.)
- 5-7 5th Nat'l Communications Symp. of IRE Prof. Group on Comm. Systems, Hotel Utica, Utica (C. W. Gordon, 1403 Bedford St., Rome, N. Y.)
- 6-9 High-Temperature Technology, internat'l symp. spons'd by Stanford Research Inst., Asilomar (Dept. 734, Stanford Research Inst., Menlo Park, Calif.)
- 7-9 Symp. on Vacuum Technology, Sheraton Hotel, Philadelphia, Pa. (Am. Vacuum Soc., Box 1282, Boston 9, Mass.)
- 8-10 Optical Society of America, Chateau Laurier, Ottawa, Canada (S. S. Ballard, U. of Florida, Gainesville, Fla.)
- 11-16 Am. Soc. for Testing Materials, nat'l mtg. & Spectroscopy Symp., San Francisco, Calif. (R. J. Wirshing, General Motors Corp., Box 188, North End Station, Detroit 2, Mich.)
- 12-14 Nat'l Electronics Conf., Hotel Sherman, Chicago (M. E. Van Valkenburg, U. of Illinois, Urbana, Ill.)
- 12-16 Internat'l Symp. on Macromolecules, Wiesbaden (W. Mauss, Rheingaustr. 25, Wiesbaden-Biebrich, Germany)
- 14-16 Gaseous Electronics Conf., 12th ann. spons'd by APS Div. of Electron Phys. & NBS at NBS (L. M. Branscomb, Nat'l Bureau of Standards, Washington 25, D. C.)
- 19-22 Electrochem. Soc., fall mtg.: Semiconductor Symp.; Surface Chem. of Metals & Semiconductors Symp., Deshler-Hilton Hotel, Columbus (A. C. Beer, Battelle Memorial Inst., 505 King Ave., Columbus 1, Ohio)
- 19-24 Journées métallurgiques d'Automne, Paris (Soc. Française de Métallurgie, 25 rue de Clichy, Paris 9, France)
- 20-21 Canadian High-Polymer Forum spons'd by NRC of Canada & Chemical Inst. of Canada, Guild Inn, Toronto (K. E. Russell, Queen's U., Kingston, Ont., Canada)
- 22-24 Acoustical Society of America, Wade Park Manor, Cleveland (E. B. Yeager, Western Reserve U., Cleveland 6, Ohio)
- 30-31 APS New York State Section, U. of Rochester, Rochester (O. E. Miller, Bldg. 65, 1669 Lake Ave., Rochester 4, N. Y.)

#### November

- 2-5 Metallurgical Soc. of AIME, fall mtg. & symposia on physical & extractive metallurgy, Morrison Hotel, Chicago, Ill. (Metall. Soc. of AIME, 29 W. 39 St., New York 18, N. Y.)
- 4-6 Society of Rheology, Lehigh U., Bethlehem, Pa. (R. R. Myers, Lehigh U., Bethlehem, Pa.)

# Detection Systems

## Senior Staff Specialist

### HONEYWELL'S

#### AERONAUTICAL DIVISION

invites consideration of this

#### Senior Staff Opening

### POSITION

Detection systems staff specialist. Radar, Infrared and related fields, development trends, technical requirements, equipment and system design criteria.

### RESPONSIBILITIES

Interpretation of new techniques, concept and design recommendations. Outside contacts, inter department coordination, technical consultation, program recommendations.

### REQUIREMENTS

Systems development experience in at least one of the following; Radar, Infrared, Countermeasures, Sonar, Communications.

Advanced degree plus significant achievements in equipment design essential. Recent familiarity with advanced techniques an asset.

If you are interested, write

J. R. Rogers, Chief Engineer,

Preliminary Development Staff

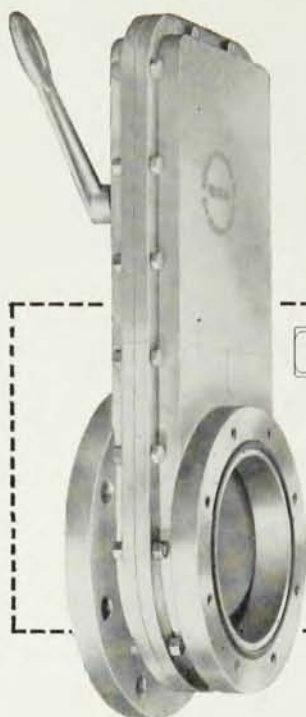
# Honeywell

AERONAUTICAL DIVISION

Dept. M-9, 2600 Ridgeway Road,

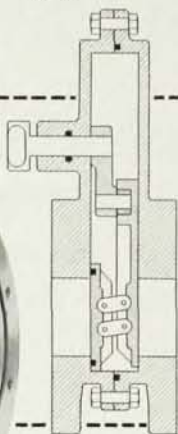
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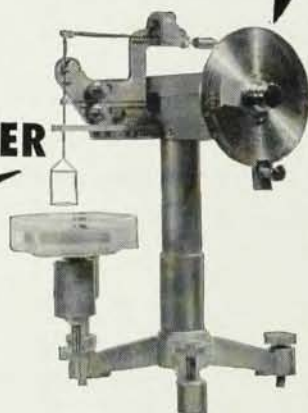
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## **POSITION OPEN**

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PHYSICS TODAY



# Computer Applications

## Senior Staff Specialist

### HONEYWELL'S

#### AERONAUTICAL DIVISION

invites qualified candidates to consider  
this Senior Staff appointment

### POSITION

Senior Staff Specialist for computer applications. Will operate independently with minimum guidance, must plan own activities and will be responsible for constructive relevant and technically sound recommendations. Opportunity to pursue appropriate advanced technical ideas.

### RESPONSIBILITIES

Recommendations regarding new techniques and technical trends, participation in concept and design reviews, liaison with military customers, other companies, and other divisions and departments within Honeywell. General top level technical consultation, program recommendations, evaluation of technical support requirements. Seminars in advanced problems of computer application.

### REQUIREMENTS

Strong background in analog and digital computer design through fire control, bombing, navigation and/or data processing system development. First hand computer circuit and control system design experience. Technical project direction with emphasis on system engineering.

*If interested in this staff opportunity, write*

*J. R. Rogers, Chief Engineer,*

*Preliminary Development Staff*

# Honeywell

AERONAUTICAL DIVISION

Dept. M-9, 2600 Ridgeway Road,  
Minneapolis, Minn.



- 4-6 Eastern Analytical Symp. of analytical chem., spectroscopy, & microchem., Hotel New Yorker, NYC (G. Morrison, *Sylvania Research Labs, Bayside, N. Y.*)
- 9-11 4th IRE Instrumentation Conf. & Exhibit, Atlanta Biltmore Hotel, Atlanta (W. B. Jones, Jr., *Ga. Inst. of Technology, Atlanta 13, Ga.*)
- 9-12 Soc. of Exploration Geophysicists, ann. mtg., Biltmore Hotel, Los Angeles (F. Lambrecht, *1544 N. Highland Ave., Los Angeles 28, Calif.*)
- 16-19 Magnetism & Magnetic Materials Conf. spon's'd by AIEE with APS, ONR, IRE, Metal. Soc. of AIME at Sheraton-Cadillac Hotel, Detroit (D. M. Grimes, *U. of Mich., Ann Arbor, Mich.*)
- 16-20 Automation Cong. & Exposition, 5th internat'l, N. Y. Trade Show Bldg., NYC (R. Rimbach, *845 Ridge Ave., Pittsburgh 12, Pa.*)
- 23-24 Solid-State Techniques in Modern Instrumentation symp. & exhibit spon's'd by ISA Phila. Sect., Ben Franklin Hotel, Phila. (G. L. Eberly, *12 S. 12 St., Philadelphia 7, Pa.*)
- 23-25 APS Division of Fluid Dynamics, Ann Arbor, Mich. (R. J. Emrich, *Lehigh U., Bethlehem, Pa.*)
- 27-28 American Physical Society, Wade Park Manor, Cleveland, Ohio (K. K. Darrow, *Columbia U., New York 27, N. Y.*)
- 29-4 Am. Soc. of Mechanical Engineers, ann. mtg., Chalfonte-Haddon Hall, Atlantic City, N. J. (ASME, *29 W. 39 St., New York 18, N. Y.*)

#### December

- 3-4 2nd Conf. on Semiconductor Surfaces spon's'd by NOL & ONR at US Naval Ordnance Lab, White Oak (J. N. Zemel, *US Naval Ordnance Lab, White Oak, Silver Spring, Md.*)
- 26-31 Am. Meteorological Soc. with AAAS, Chicago, Ill. (AMS, *3 Joy St., Boston 8, Mass.*)
- 28-29 Mechanisms of Interfacial Reaction, ACS Div. of Industrial & Eng. Chem. Xmas Symp. at Johns Hopkins U. (S. K. Friedlander, *Johns Hopkins U., Baltimore 18, Md.*)
- 28-30 American Physical Society, Pasadena (W. A. Nierenberg, *U. of California, Berkeley 4, Calif.*)

#### 1960

#### January

- 19-21 Am. Meteorological Soc., 40th anniversary mtg., Boston (AMS, *3 Joy St., Boston 8, Mass.*)

#### February

- 10-12 Solid-State Circuits Conf. spon's'd by IRE, AIEE, U. of Pa. in Phila., Pa. (T. R. Finch, *Bell Telephone Labs, Murray Hill, N. J.*)

#### March

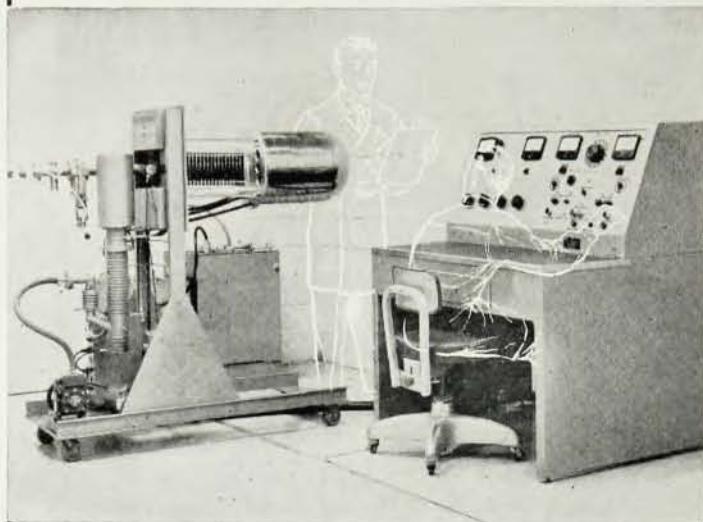
- 30-31 Polymeric Progress, internat'l conf., Wm. Beveridge Hall, London U. (The Plastics Inst., *6 Mandeville Pl., London, W. 1, England*)

#### April

- 7-9 Optical Society of America, Hotel Statler, Washington, D. C. (S. S. Ballard, *U. of Florida, Gainesville, Fla.*)
- 20-22 Electronic Conductivity in Organic Solids, conf. spon's'd by OOR & ONR at OOR, Duke U. (M. Silver, *OOR, Box CM, Duke Station, Durham, N. C.*)



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For further information write:

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## POSITION OPEN

Physicist—Interest in rock mechanics, explosives, hypervelocity impact and mining research. MS or PhD and capability in both theory and experiment. Colorado School of Mines Research Foundation, Golden, Colorado, Tele. no. CRestview 9-2581.

Permanent position open in the Physics Dept. of the University of Wichita. Person with Ph.D. degree or Master's degree with prospects for early Ph.D. Salary and rank open. Write Penrose S. Albright, Head of Physics Department, University of Wichita, Wichita, Kansas.

PHYSICIST—Immediate opening for senior man in research on Ions in Flames. Small research group, ideal location, interesting programs, unusual benefits.

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## POSITION OPEN

Process Engineer to conduct experimental work in the development of various types of resistors. Experience with molding of plastics and training in solid state physics preferable. Manufacturing experience of film resistors desirable.

Degree in Physics, Chemistry, or Physical Chemistry required.

Address replies to: Speer Carbon Company, Bradford, Pennsylvania.

## POSITIONS OPEN

TWO TEACHERS, department of Mechanics and Electricity. One, department head, Ph.D. mechanical engineering preferred. Degree in physics for second position. B.S. or M.S. also considered. Teach mechanics, strength of materials, thermodynamics, applied electricity, general physics. Salary and rank dependent on qualifications. Apply President, Montana School of Mines, Butte, Montana.

1960

- 20-22 Manned Space Stations Symp. sponsored by IAS, NASA, Rand Corp. at Ambassador Hotel, Los Angeles (J. H. Huth, Rand Corp., 1700 Main St., Santa Monica, Calif.)

May

- 30-4 Reactivity of Solids, internat'l symp. of Netherlands Ceramic Soc., Amsterdam (J. G. van Gijn, Insulindelaan 2, Eindhoven, Neth.)

June

- 9-11 Acoustical Society of America, Brown U. (R. B. Lindsay, Brown U., Providence 12, R. I.)

July

- 6-16 High-Energy Nuclear Physics, IUPAP conf., by invitation, U. of Rochester (R. E. Marshak, U. of Rochester, Rochester 20, N. Y.)  
25-8 Internat'l Union of Geodesy & Geophysics, Helsinki, Finland (W. E. Smith, Am. Geophys. Union, 1530 P St., N. W., Washington 5, D. C.)

August

- 15-24 Internat'l Union of Crystallography at Cambridge, Eng.: 5th Gen. Assembly (D. W. Smits, 10 Bloemsingel, Groningen, Netherlands); Internat'l Cong. (W. H. Taylor, Cavendish Lab, Cambridge, England)  
29-2 8th Internat'l Symp. on Combustion, Calif. Inst. of Tech. (S. S. Penner, Calif. Inst. of Tech., Pasadena, Calif.)  
29-2 Internat'l Conf. on Semiconductor Physics, IUPAP, Prague (M. Matyas, Inst. of Technical Physics, Cukrovarnicka 10, Prague 5, Czechoslovakia)  
29-3 Nuclear Structure, IUPAP colloq., Queen's U., Kingston, Ont. (L. G. Elliott, Atomic Energy of Canada, Chalk River, Ont., Canada)  
31-7 Internat'l Congress of Theoretical & Applied Mechanics, IUTAM, Stresa, Italy (H. L. Dryden, 1512 H St., N. W., Washington 25, D. C.)

September

- 12-16 Internat'l Council of the Aeronautical Sciences cong., Zurich, Switzerland (Inst. of the Aeronautical Sciences, 2 E. 64 St., New York 21, N. Y.)

October

- 4-22 Internat'l Comm. of Weights & Measures mtg. at Sèvres & gen. conf. in Paris (Oct. 11-19) (Bur. Internat'l des Poids & Mesures, Pavillon de Breteuil, Sèvres, France)  
13-15 Optical Society of America, Somerset Hotel, Boston, Mass. (S. S. Ballard, U. of Florida, Gainesville, Fla.)  
20-22 Acoustical Society of America, Sheraton-Palace Hotel, San Francisco (V. Salmon, Stanford Research Inst., Menlo Park, Calif.)

1962

June

- 18-21 4th US Nat'l Cong. of Applied Mechanics, U. of Calif., Berkeley (W. Goldsmith, Div. of Mechanics & Design, U. of Calif., Berkeley 4, Calif.)

AUGUST 1959

# LONG RANGE

## Technical Planning

### HONEYWELL'S

#### AERONAUTICAL DIVISION

offers a professional opportunity

on its

Advanced Systems Planning Staff

This division has major contracts for guidance, instrumentation and automatic control systems for space vehicles, missiles, drones and aircraft with NASA and each of the military services.

The man selected will participate in determining the future program of the division in the same fields and in new systems and product fields. He will identify areas of opportunity arising from military planning and civil aviation requirements, and will recommend programs for capitalizing on these opportunities.

The man will have strong experience in operations analysis for weapons systems, in research or development of complex automatic control systems and/or in technical direction of such programs as a member of military agency or prime contractor. His technical speciality may include navigation, tracking, detection, fire control, bombing or communications with an appropriate academic background.

If interested in this staff opportunity,

write J. F. Healey, Director

of the Advanced Systems Planning staff

# Honeywell

AERONAUTICAL DIVISION

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