

FORTHCOMING EVENT

Monday, December 20

OPERATIONAL RESEARCH SOCIETY (at the Royal Society, Burlington House, Piccadilly, London, W.1), at 2.30 p.m.—Meeting on "The Accuracy and Function of Time Study".

APPOINTMENTS VACANT

APPLICATIONS are invited for the following appointments on or before the dates mentioned:

ASSISTANT, Grade B (with an honours degree in mathematics or engineering, and with suitable teaching experience), IN THE DEPARTMENT OF MATHEMATICS—The Registrar, College of Technology and Commerce, The Newark, Leicester (December 28).

PRINCIPAL SCIENTIFIC OFFICER (with a first- or second-class honours degree in mechanical or chemical engineering or equivalent qualification, and some postgraduate research experience), at the Mechanical Engineering Research Laboratory, East Kilbride, Glasgow, to lead a research team investigating heat transfer in heat exchange plant—The Civil Service Commission, Scientific Branch, 30 Old Burlington Street, London, W.1, quoting S.4401/54 (December 29).

PRINCIPAL SCIENTIFIC OFFICER (with a first- or second-class honours degree in engineering or equivalent qualifications) at the Mechanical Engineering Research Laboratory, East Kilbride, near Glasgow, to initiate research into fundamental factors underlying the wear and lubrication of internal combustion engines, using modern techniques (e.g., radioactive tracers)—The Civil Service Commission, Scientific Branch, 30 Old Burlington Street, London, W.1, quoting S.4405/54 (December 30).

ANALYTICAL CHEMIST (with a degree in chemistry or equivalent qualification, and preferably with experience in analysis of compounded materials) in the Plant Protective Chemistry Section, for work which will consist mainly of analysis of spray materials and residues—The Secretary, East Malling Research Station, near Maidstone, Kent (December 31).

ASSISTANT EXPERIMENTAL OFFICER (with a pass degree (chemistry or botany), or at least the general certificate of education at advanced level), IN THE CHEMISTRY SECTION, to work mainly on the effects of crop residues on the soil—The Secretary, National Vegetable Research Station, Wellesbourne, Warwick (December 31).

CHEMICAL ENGINEER, Senior Scientific Officer grade (with a first- or second-class honours degree in chemical engineering or equivalent, and postgraduate experience in development work, including design of pilot units), at a Ministry of Supply Establishment located in S.W. England, to be concerned with the development of chemical processes involving semi-technical research and design and operation of pilot units—The Ministry of Labour and National Service, Technical and Scientific Register (K), 26 King Street, London, S.W.1, quoting F.806/54A (December 31).

CHEMIST (with a first- or second-class honours degree or equivalent qualification in chemistry, and preferably with postgraduate experience in physical analytical methods, micro-analysis, chromatography, corrosion of metals or biochemistry) at the Ministry of Supply Tropical Testing Establishment, Port Harcourt, Nigeria, to take charge of a chemical laboratory, and work on chemical and biochemical problems associated with the study of deterioration under tropical conditions of materials and stores of all types—The Ministry of Labour and National Service, Technical and Scientific Register (K), 26 King Street, London, S.W.1, quoting F.816/54A (December 31).

LABORATORY TECHNICIAN IN THE DEPARTMENT OF CHEMISTRY, Potchefstroom University for Christian Higher Education, South Africa—The Secretary, Association of Universities of the British Commonwealth, 5 Gordon Square, London, W.C.1 (South Africa, December 31).

PHYSICAL CHEMIST (with at least a good honours degree) for investigation on macromolecular substances of biological origin by physical methods—The Chester Beatty Research Institute, Fulham Road, London, S.W.3, quoting "Physical Chemistry" (December 31).

PHYSICISTS and CHEMISTS, to carry out research into glass-making problems—The Secretary, British Glass Industry Research Association, "Elmfield", Northumberland Road, Sheffield 10 (December 31).

PHYSICIST or ELECTRICAL ENGINEER (with a knowledge of electronics, and preferably familiar with electrical instrumentation and measurement techniques), for recording work on rocket motors; and **PHYSICISTS or MECHANICAL ENGINEERS** for (a) experimental and theoretical work on the development of components for liquid and solid propellant rocket motors, and (b) for work on heat transfer problems in rocket motor nozzles, at the Royal Aircraft Establishment, Rocket Propulsion Department, Westcott, Bucks—The Ministry of Labour and National Service, Technical and Scientific Register (K), 26 King Street, London, S.W.1, quoting A.346/54A (December 31).

ASSISTANT EXPERIMENTAL OFFICER (science graduate) to do chemical analysis associated with grassland and other research—The Secretary, The Hannah Dairy Research Institute, Kirkhill, Ayr (January 1).

ENGINEER (with a good honours degree in mechanical engineering or equivalent professional qualifications, proved research ability and preferably experience in the field of the strength of materials), at the Central Research Establishment, National Coal Board, to lead a group carrying out research on coal cutting—The National Coal Board, Establishments (Personnel), Hobart House, Grosvenor Place, London, S.W.1, quoting TT/891 (January 1).

RESEARCH FELLOW IN RADIATION BIOLOGY, and a RESEARCH FELLOW IN BIOCHEMISTRY—The Clerk to the Governors, St. Bartholomew's Hospital, London, E.C.1 (January 1).

RESEARCH WORKER (with a university degree, preferably in forestry, and with some practical forestry and research experience), to undertake a special study of the problem of planting mining refuse heaps in Scotland—The Secretary, The University, Edinburgh (January 1).

LECTURER (with a good honours degree) IN PHYSICS, at the Nigerian College of Arts, Science and Technology—The Secretary, Advisory Committee on Colonial Colleges, 1 Gordon Square, London, W.C.1 (January 3).

MATHEMATICIANS (with a first- or second-class honours degree in mathematics) at Ministry of Supply Research and Development Establishments in Southern England, for work on a wide range of problems chiefly concerned with aircraft, radio and radar equipment and armaments—The Ministry of Labour and National Service, Technical and Scientific Register (K), 26 King Street, London, S.W.1, quoting A.355/54A (January 7).

PHYSICIST (with a good honours degree in physics, and at least two years experience in radiological physics), at the Combined Military Hospital, Rawalpindi, Pakistan—The Recruitment Officer, Education Division, Office of the High Commissioner for Pakistan, 39 Lowndes Square, London, S.W.1 (January 7).

CHAIR OF PHYSICAL METALLURGY—The Registrar, The University, Sheffield (January 8).

SCIENTIFIC OFFICER (with a first- or second-class honours degree in an approved scientific subject or other approved equivalent qualification, and preferably with previous industrial experience) IN THE DEPARTMENT OF INDUSTRIAL AND FORENSIC SCIENCE of the Ministry of Commerce—The Secretary, Civil Service Commission, Stormont, Belfast, N. Ireland (January 10).

PRINCIPAL SCIENTIFIC OFFICER (with a first- or second-class honours degree in mathematics, physics or engineering, or equivalent qualifications) at the Mechanical Engineering Research Laboratory, East Kilbride, near Glasgow, to lead a team preparing tables of thermodynamic properties—The Civil Service Commission, Scientific Branch, 30 Old Burlington Street, London, W.1, quoting S.4402/55 (January 18).

PRINCIPAL or SENIOR SCIENTIFIC OFFICER (with a first- or second-class honours degree in physics or physical chemistry or equivalent qualification) at the Radio Research Station, Department of Scientific and Industrial Research, Ditton Park, Slough, Bucks, to lead a small, but expanding group investigating the fundamental electrical properties at high frequencies of materials of interest in radio applications and the relation of these properties to their physical and chemical structure—The Civil Service Commission, Scientific Branch, 30 Old Burlington Street, London, W.1, quoting S.4399/55 (January 20).

RESEARCH ASSISTANT (with a first- or good second-class degree in botany or geography, and with ecological or physiographical interests) IN ECOLOGY, for work on *Spartina* colonization of coastal areas—The Secretary and Registrar, The University, Southampton (January 31).

LECTURER (graduate in science or agricultural science) IN BOTANY at the University of New England, Armidale, New South Wales, Australia—The Secretary, Association of Universities of the British Commonwealth, 5 Gordon Square, London, W.C.1 (Australia, February 1).

I.C.I. RESEARCH FELLOWSHIPS IN BIOCHEMISTRY, CHEMISTRY, ENGINEERING, PHARMACOLOGY or PHYSICS—The Secretary, The University, Edinburgh (February 14).

LECTURER IN INORGANIC AND PHYSICAL CHEMISTRY—The Secretary, The University, Edinburgh (February 28).

ASSISTANT CONSERVATORS (with either a degree in forestry or an honours degree in natural science, with botany as a special subject) OF FORESTS, in the Gold Coast Local Civil Service—Director of Recruitment, Colonial Office, Great Smith Street, London, S.W.1, quoting BCD.61/13/02.

ASSISTANT LECTURERS, Grade B, IN THE DEPARTMENT OF CHEMISTRY AND APPLIED CHEMISTRY—The Principal, Royal Technical College, Salford, 5.

CYTOLOGIST, for chromosome studies—The Sherardian Professor of Botany, The University, Oxford.

ENTOMOLOGISTS (with an honours degree in zoology, and training in entomology) in the Department of Tsetse Control, Gold Coast Local Civil Service, to investigate various aspects of the bionomics and ecology of tsetse flies in relation to man and animals, and to supervise control measures under the direction of the Director of Tsetse Control—The Director of Recruitment, Colonial Office, Sanctuary Buildings, Great Smith Street, London, S.W.1, quoting BCD.77/13/01.

LABORATORY ASSISTANT (with a general degree in science or agriculture, with main interest in chemistry, or an honours degree in chemistry) IN THE DEPARTMENT OF AGRICULTURE, Kenya, to carry out investigational work on problems of agricultural chemistry related to coffee culture—The Director of Recruitment, Colonial Office, Great Smith Street, London, S.W.1, quoting BCD.63/7/09.

LABORATORY TECHNICIAN (with experience in the use of routine apparatus, and preferably with biochemical or chemical training) IN THE PHYSIOLOGY DEPARTMENT—The Secretary, St. Mary's Hospital Medical School, Paddington, London, W.2.

LECTURER (graduate in chemistry or biochemistry and experience in the food industry, preferably in the technology of edible oils and fats or of cereals)—The Registrar, National College of Food Technology, Cranwood Street, City Road, London, E.C.1.

MASTER to teach BIOLOGY to Scholarship level—Headmaster, Downside School, Stratton-on-the-Fosse, Bath, Somerset.

MATHEMATICAL PHYSICISTS (with a first- or second-class honours degree in mathematics or physics, together with some years appropriate postgraduate research experience), for work in one of the following fields: astrophysics, fluid dynamics, nuclear physics or statistics—Senior Recruitment Officer, Atomic Weapons Research Establishment, Aldermaston, Berks, quoting 283/WGE/2.

PHYSICIST (with an honours degree, and an interest in classical physics, fluid mechanics and statistical analysis) to work with a small team engaged on a long-term study of the principles of operation of paper-making machines, and, in particular, of fluid flow of pulp suspensions—The Director, British Paper and Board Industry Research Association, St. Winifred's Laboratories, Welcomes Road, Kenley, Surrey.

RESEARCH ASSISTANT (female) (preferably B.Sc. (bacteriology)), for duties concerned with research on serology of viruses—The Secretary, Foot and-Mouth Disease Research Institute, Pirbright, Surrey.

RESEARCH ASSISTANT (Ph.D. standard), for work on reaction kinetics at gas-solid interfaces—Dr. Tomkins, Imperial College, London, S.W.7.