

Director
Division Heads

SRC/AEA JOINT LASER LABORATORY PROJECT

STAFFING

In the proposal approved by Council on 18 December 1974 (SRC 107-74) detailed plans for the establishment of central high power laser facilities were set out. Broadly, the concept underlying the plans for the joint SRC/AEA project is that the provision of resources should be equally divided between the Rutherford Laboratory and Harwell in the first instance. If operating experience shows that one organisation is using a larger share of the facilities than the other the resource allocations will be adjusted to reflect this unequal utilisation.

The annual budget of the project is about £2M rising to £2.5M at the end of the first five years. It is envisaged that the direct complement of the project should be 67 and that this should be the in post 'figure' two years after approval. This implies that from 1977, 33/34 direct Rutherford Laboratory complement posts will be identified with the work of the laser project. The gradual development of work on the project can be accomplished by a steady build up of staff (assumed \sim linear) over the first two years of its life.

In the annexe to this paper, detailed proposals for the staff build up in 1975/76 are presented. The organisational structure within the project is shown in the 'family tree' on which the first 15 posts that it is proposed to fill from Rutherford Laboratory complement are identified. If the laboratory complement does not allow 15 posts to be filled by the end of the year, an attempt would be made to use AERE electrical craft staff to fill posts 9 and 14 and to delay post 15 to 1976/77.

These proposals are still to be agreed with AERE. The availability of staff within Harwell and the Rutherford Laboratory may result in some changes in the case of specific posts listed in the annexe.

L.C.W. Hobbis
21.2.75

IN CONFIDENCESTAFFING OF LASER PROJECT 1975/76

During 1975/76 the staff allocated to the Laser Project from the Rutherford Laboratory complement to meet the programme agreed by Council should rise to 15 by April 1976. These first fifteen posts are identified and where a preferred named person can be identified in the laboratory this is indicated. Where no named individual has been identified, the brief job description should allow suitable staff to be selected.

1. Project Officer In Post.
P.R. Williams.

2. Senior Engineer Required as soon as possible.
Coordination of all support engineering on the project. Particular responsibility for temporary and permanent buildings and services. Establishment and control of close support workshops and design office. Special R & D projects in high power laser engineering and applications.
NPA
J.E. Boon
PTD

3. Physicist/Engineer Required April 1975.
To specify and implement real time computer systems for Laser monitoring and control, and experimental data acquisitions. To liase with manufacturers on Laser data logging and control. Reports to post 11.

4. Electrical Engineer Required April 1975.
To be responsible for Project electrical engineering To liase with manufacturer to define and provide locally manufactured laser hardware. Specific responsibility for Energy storage capacitor banks, Safety, cabling, electrical services and plant. Reports to post 11.
New exp facilities
A.W. Eastwood. PTD

5. Physicist Required April/May.
Laser and experimental diagnostics - Ion spectroscopy, neutron counting, X-ray measurements, spectrographic studies, plasma diagnostics.
New ABT
B.D. Jones.
550

6. Electrical Draughtsman Required May/June.
Preparation of circuit designs and building service layouts. Integration of manufacturers items with JLL 'in house' equipment. Reports to post 4.
7. Physicist Required July.
Specialist in high power glass lasers to be responsible for installations, commissioning and operations of 100GW Laser.
Recruited from University - T. Hall (Essex).
8. Experimentalist Required July.
Preparation for and operation of 100GW Laser. Ideally should have some knowledge of Lasers, optics or fast pulse techniques. Reports to post 7.
H50
N. Allen (AP Div.)
9. Electrical Charge Hand Required August.
Installation of 100GW glass laser. Experience in high voltage systems (>10KV) advantageous.
10. Technician Required August/September.
Mechanical or electrical foreman for one of the close support workshops.
11. Electrical/Electronic Engineer Required September.
To control all electrical, electronic and real time computing activities on the project. Will report to senior engineer on all electrical work. Responsible for specification of e-beam generator. Responsible for Laser control and safety. Reports to post 2.
P10I
MC EF
P. Gottfeldt.
12. Technician Required September.
Instruments technician, electrical or mechanical for work with 100GW laser on commissioning and operations. Experience with precision alignment or high speed electronics an advantage.

13. Experimentalist Required September.
Design of software for real time computer systems
using GE 2050, 4080, PDP 11/45 or similar machine.
Reports to post 3.
14. Electrical Craftsman Required September/October.
Laser installation, cabling and supplies.
Commissioning. Diagnostic installation.
15. Technician Required January/February 1976.
Specification as 12 above.

It is proposed that W. Turner, who has relevant experience and wishes to work in this field, should be used on the project as soon as he can be released from his commitment to the RCVD. It is proposed that he will be part of the team looking into prospects for new lasers. This work does not have to begin immediately and release during 1976 would be compatible with the proposed programme.

The specification of real time computer systems (post 3) is a high priority job. This work could be undertaken in the first instance by R.A. Lawes (C.A.Div.) in a consultant capacity.

P.R. Williams

19 February 1975.

Head of Project I
Assoc. Head of Project

