

218, Maclaren Street,
Ottawa, Ont.

20th. April 1953.

Dear Sir,

I am enclosing herewith my application for the post of Senior lecturer in the Dept. of Physics, Indian Institute of Science, Bangalore.

I request that this may be forwarded through the correct official channels to the Registrar, Indian Institute of Science.

Inasmuch as the closing date for applications is the 8th. of May, I have sent a copy of this application directly to the Registrar, for his information and action subject to approval being received.

Thanking you in anticipation,

Yours truly,

P. Hanuman

The Director,
National Physical Laboratory of India,
New Delhi 12, India.

Application for the post of Senior Lecturer, Dept. of Physics,
Indian Institute of Science, Bangalore, India.

Name. Parameswaran Hariharan (P. Hariharan)

Present address. 218, Maclaren Street, Ottawa, Ont., Canada.

Permanent address. 27, Luz Church Road, Mylapore, Madras.

Date of birth. 26th. December, 1926.

Father's name. Dr. H. Parameswaran.

Educational qualifications.

a. Matriculated from H.H. the Maharaja's Model School in Trivandrum in April 1942.

Rank, University First. Awarded the Sri Mulam Thirunal Shastiabdarthi Memorial Medal and other prizes.

b. Intermediate Examination, March 1944. H.H. the Maharaja's University College, Trivandrum.

	Subject	Marks obtained	Maximum.
Part I	English	206	300
Part II	French	182	200
Part III	Mathematics	150	150
	Physics	141	150
	Chemistry	129	150

Rank, University First. Awarded the Cullen Memorial Gold Medal.

c. B.Sc. Degree Examination. March 1946. H.H. the Maharaja's University College, Trivandrum.

	Subject.	Marks obtained	Maximum.
Part I	English	250	400
Part II	French	172	200
Part III	Physics- Written	226	240
	Practical	110	110
	Mathematics	150	150

Triple First Class and University First. Awarded the Boyle Prize for English, the Harvey Prize for English Essay and the Good Conduct medal.

d. M.Sc. Degree Examination. March 1948. H.H. the Maharaja's University College, Trivandrum.

	Subject	Marks obtained	Maximum
a.	Physics- Written exam.	598	750
b.	Practical exam.	400	500

Rank, University First.

Membership of Societies. Associate of the Optical Society of America, and Associate of the Institute of Physics, London.

Publications. A monograph, 'Spectacle Lenses', awarded the Maharani Setu Parvati Bayi Prize by the University of Travancore.

Research Experience.

a. Practical training for over four years under my father, Dr. H. Parameswaran, in the design and production of optical instruments and precision optical elements. This includes items like interferometer plates telescope objectives, and aspherical mirrors, as well as a large Littrow

spectrograph and a constant deviation spectrograph.

b. Worked as Junior Scientific Officer, Optics Division, National Physical Laboratory, New Delhi, from January 1949 to August 1951. Last salary drawn was Rs. 425- per month, inclusive of allowances. (

During this period, completed the construction of :

1. An ultra sensitive photo-multiplier unit, with a heterodyne amplifier and its own stabilized power supplies for the direct measurement of the intensities of faint spectrum lines.

2. A vacuum coating unit for depositing films by evaporation or sputtering on to surfaces up to 6 inches in diameter.

3. A Twyman-Michelson ineterferometer, with attachments for testing lenses and prisms with a clear aperture of 2 1/2 inches.

4. Designs for a microphotometer and a Jamin Interferometer were also prepared.

c. Awarded a Resident Fellowship under the Colombo Plan for advanced work and training in Canada, in August 1951. Total annual value of the fellowship, \$ 2650, and passage to and fro. The award was for a period of six months in the first instance and this was spent in a study tour of the departments of Optics, Photometry and Colorimetry, Temperature and Radiation, Electrical Measurements, Metrology (Interferometry lab.), Industrial Radiology and Radio-active Isotopes, of the National Research Council Laboratories at Ottawa, Ont.

Subsequently, this fellowship was extended for another six months which was spent in the Department of Optics. During part of this period studied the design and testing of optical instruments, as well as methods employed in making specialised optical components in their optical shops. Also studied techniques of photographic sensitometry.

d. Appointed Assistant Research Officer in the Department of Optics National Research Laboratories, in July 1952, on a salary of \$ 4150 per annum.

Work from March 1952 onwards has been on a theoretical and experimental study of the resolving power and sharpness characteristics of lens-film combinations. The apparatus for this work has been specially designed and built and a set of test graticules made up.

References.

a. Dr. C.S.Venkateswaran, Dean of the Faculty of Research, University of Travancore.

b. Dr. Sir K.S.Krishnan, F.R.S, Director, National Physical Laboratory of India, New Delhi 12.

c. Dr. L.E.Howlett, O.B.E, Director, Department of Physics, National Research Council Laboratories, Ottawa, Ont., Canada.

(Please make reference by Air Mail)

Salary acceptable.

In view of positions held and research experience, I request that I may be given a starting salary, ~~Rs. 500/- per month~~ of at least Rs. 500/- per month. (BASIC).

P. H. Aisharan

20.4.53.

P. Hariharan

218, MacLaren Street,

Ottawa, Ont.

Canada. 20th. April '53

Dear Professor Krishnam,

I have just received a letter from my father-in-law informing me that the Indian Institute of Science, Bangalore, have advertised the post of a Senior lecturer in the Department of Physics on a salary scale of Rs. 350 - 850. He is quite keen that I should apply for it, in view of its nearness to Madras, as well as the higher salary scale, and is of the opinion that I may stand a fair chance for the post. I understand he has written to you about it and I expect you must have received the letter.

I am accordingly enclosing an application, which I would like to be forwarded through the usual channels. I hope it meets with your complete approval, and that the C.S.I.R. and the Education Ministry will not have any objections. In view of the limited time left before the closing date for applications, I am sending a copy directly to the Registrar Indian Institute of Science, with a note that the original application will be officially forwarded in due course if approved.

My work at the National Research Council is progressing satisfactorily and I am glad to hear that there is a chance of my request for an extension of leave being granted. This should give me adequate time to complete the problem on which I am working, before my return.

I trust you will accept my thanks for all you have done in this regard and I hope I will continue to enjoy the benefit of your advice.

Yours sincerely,

P. Hainbarau