

Budget Bureau No. 104-6604
Expiration date: January 31, 1967

NATIONAL ACADEMY OF SCIENCES—NATIONAL RESEARCH COUNCIL
in cooperation with the
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

APPOINTMENT OF SCIENTIST AS ASTRONAUT

Application

Please Type or Print. Deadline for filing this Application is January 8, 1967.

1. Name in full: Dr. Thornton, William Edgar
Mr. last first middle
2. Present address 5131 Lancelot Dr., San Antonio, Texas
3. Permanent address 5131 Lancelot Dr., San Antonio, Texas
4. Phone number OL 54763 LE 28811 Ext. 6283
home office
5. Age 37 Date of birth 4-14-29 Place of birth Goldsboro, N.C.
month, day, year city, state or foreign country
6. Will you be a United States citizen on March 15, 1967? ☒ Yes ☐ No
7. Height 6'0" Weight 200# Sex: ☒ M ☐ F Social Security Number [REDACTED]
feet inches
8. Marital status: ☐ Single ☒ Married Number and ages of dependent children 2, 5 and 7
9. Major field Medicine Specialized field Aerospace Med. Field of doctorate Medicine
10. Highest degree earned: ☐ Ph.D. or Sc.D. ☒ M.D. ☐ Other specify
11. Degree expected: ☐ Ph.D. or Sc.D. ☐ M.D. ☐ Other specify Date expected specify
12. Colleges or universities attended including the one in which you may be currently enrolled. Arrange in sequence, listing your current (or last-attended) institution first:

College or University and State in which Located	Inclusive Dates of Attendance	Degree Earned or Expected	Date Awarded or Expected	Major Field of Specialization
<u>Univ. of North Carolina</u>	<u>59-63</u>	<u>M.D.</u>	<u>3 June '63</u>	<u>Medicine</u>
<u>Univ. of North Carolina</u>	<u>48-52</u>	<u>B.S.</u>	<u>2 June '52</u>	<u>Physics</u>
<u>N.C. State College</u>	<u>47-48</u>	<u>—</u>	<u>—</u>	<u>Elec. Eng</u>

13. List academic honors, including scholarships or fellowships, held, with dates of each: 1st Prize, Scientific Exhibit on patient monitoring, 1960, American Society of Anesthesiologists
1st Prize, Scientific Exhibit on EKG diagnosis, 1961, Aerospace Medical Association
* American Society of Anesthesiologists

(over)

14. Teaching, research and other relevant positions held:

POSITION	PLACE	DATES
Tech. Adviser to Director, Crew Test & Eval. (MOL Bioastronautics) Capt, MC, USAF	AMD, Brooks AFB, Tex	"64-Present
Capt, MC, USAF (Interne)	Wilford Hall USAF Hosp, Lackland AFB	'63-'64
Chief Engr, Electronics Div	Del Mar Eng., Los Angeles, Cal	'56-'59
Full-time consultant to	Air Proving Ground Command	'55-'56
1st Lt USAF OIC of Photo Optics	Flight Test Lab, Eglin AFB, Fla	'53-'55

15. Names and addresses of four persons who know your academic and professional experience and ability whom you are requesting to submit a Reference Report. At least two of the four should be persons with whom you have worked in your major field; the others listed should be in closely allied fields. Include your thesis adviser, if applicable.

☐ (thesis adviser) Col A.G. Swan, Director, Rich. D. Long, AMD, BAFB, Tex, 78235
 Dr. ED Palmatier, South Bldg., Univ. of N.C., Chapel Hill, N.C.
 Dr. D.A. Davis, N.C. Memorial Hospital, Chapel Hill, N.C.
 Mr. Bruce Del Mar, Del Mar Eng. Labs. 6901 Imperial Highway
 Los Angeles Calif

16. List any special certificates or licenses (e.g., pilot, radio operator), skills or field experience you possess that may be relevant to this application.

1) Flight medical officer, graduate primary course in aerospace medicine, Apr 65. 2) Study and practice of electronics (since early high school) has proven more than practically equal to BS in EE. 3) Extensive experience in organization and direction of flight test of aircraft and small missile programs, data reduction and analysis, 1000+ hours' participation in flight test, including zero G, in various crew functions including cameraman, radar and weapons system operator. 4) Extensive experience in use and design of medical instrumentation. 5) Two plus years' experience in space medicine problems including development and design of instruments and techniques for use on MOL and NASA programs.

17. List any special qualifications not covered elsewhere in the application (e.g., membership in professional or scientific societies, patents or inventions).

Have organized and directed two successful commercial efforts, Electronics Division of Del Mar Eng. Labs (aerospace electronics) and Avionics Research Products (medical electronics), which included development, design, production, test, and maintenance of complex instruments. Personally designed radar systems and subsystems, radio receivers and transmitters, 'scopes, and medical instrumentation. Can operate and maintain complex electronic (radar, radio, etc.), optical and electromechanical devices and instruments, reasonably skilled as electrician and mechanic with knowledge of machine shop practice. Have performed valid experiments in unusual environments including high performance A/C, zero gravity, centrifuge and high altitude chambers; have provided solutions to complex physical problems in a variety of fields. Seven years' varsity collegiate and service football.

Inventions: U.S. Patents:

2,869,120	I.R. Target System	3,161,877	Doppler Radar Scoring System
2,909,772	Scope Recorder	3,267,934	Electrocardiographic Computer
2,938,201	Radar-Optical Scoring Systems	Pending	Non-gravimetric Mass Measurement System
2,983,915			
2,971,274	Missile Simulator	In Application	Multi-channel Densitometer System and Ergometer
3,149,328	Pulsed Light "radar"		

Signature of Applicant

Date