		DECOR	N Pures	. K. J
SUBJECT: (Optional)	ROUTING AND	RECOK		
			(BDA/REG Lecged)	
FROM		EXTENSION		TAT
D/OTE 1026 CofC				ГАТ
TO: (Officer designation, room number, and building)	DATE RECEIVED FORWARDED	OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)	
1. EXA /DDA 7D24/Hqs.	SER SONWARDED	9n '	1 to 3,5: The mist likely cardidates would be from DRD's.	
2.			AI research center, or OIT's	
3. ADDA	05 SEP 1986	1	small AI Staff. DOSST also has sovered in engine volated AI efforts	
4.	05 25	1	conditate is possible.	
5.				STA
DDA	• 5 SEP 1986	N		
6.				
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FORM 610 USE PREVIOUS

GPO : 1983 O - 411-632

OTE 86-1037

2 September 1986

MEMORANDUM FOR:	Deputy Director for Administration	
FROM:	Director of Training and Th	STA
	Director of Training and Education	
SUBJECT:	Carnegie-Mellon University	
Times on the Car	our note with the clipping from the <u>New York</u> negie-Mellon IBM connection. Interestingly, I be piece on the airplane on the way to Monrovia	
and pulled it ou thinking alike.	t of the paper. Another example of the geniuses	
Head of the Comp	-who has a PhD in Computer Science from -called the University and talked to the Acting uter Science Department, Professor John	STA ⁻
be willing to tal officer-in-resid	fessor McDermott said that the Department would ke both a student and a senior ence. He said that the student, to work in ligence (AI), ought to have at least a Masters	
knowledgeable ab McDermott said ti	er Science and be at least somewhat out artificial intelligence . Professor hat they had an officer-in-residence from IRS	
who met these re	quirements; in addition. IRS provides the	
this individual. has so many opport	\$75,000 in "research funds" in association with got the impression that the Department rtunities of this sort that they are not widely	STA ⁻
of the Departmen lack of enthusia	would be willing to go along with what we Of course, only talked to the Acting Head t, so it is a little unclear to what degree his sm but willingness to go along represents the ef. We will have to find out.)	STAT
3. I do no Professor McDerme	t think that we have anybody in OTE who meets ott's stipulations, but we will continue our tise the opportunity.	

SUBJECT: Carnegie-Mellon University

- 4. I passed the above information to Ed Maloney. He said that, based on your note, he was already beginning to canvas for candidates for Carnegie-Mellon. I told him that, as far as I was concerned, the University would accept the right candidates if we could find them.
- 5. Clearly, it makes a lot of sense to have one or more Agency people at Carnegie-Mellon, so we will pursue this vigorously. I will be in touch with IMS, OIT, ORD, and anybody else that we can think of who would be interested in the AI and computer science area. It is clear from the clipping that Carnegie-Mellon is the place to be, and I think it would really pay off for the Agency to be closely associated with what's happening there. We will pursue finding a candidate vigorously.

STAT

cc: D/OIT/DA C/IMS/DO D/ORD/DS&T ADDS&T

2	OUTIN	G AND	RECOR	D SHEET				
ROUTING AND RECORD SHEET SUBJECT: (Optional)								
PROM: William F. Donnelly Deputy Director for Administration			DATE 15 AUG 1986					
TO: (Officer designation, room number, and building)	D	ATÉ FORWARDED	OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)				
Director of Training and Education 936 C of C	8/20			Stan: Please note the attached				
DO/OTE	8,	/21	Way	clipping from the New York Times. I have been stating for some				
3. ∷/√∵∑	Charta	4-4-1		period of time that the Agency should have someone at Carnegie-Mellon University who				
4.		16-7		has an ADP background. Now I believe it even more. Please get together and arrange for an				
5.				appropriate officer to go to Carnegie-Mellon for a year's training in the field of				
6.				artificial intelligence or arrange to place an officer at Carnegie-Mellon for two years as				
7.				a "Professor" in Residence. I see this officer as a GS-14				
8.				to SIS-02; it should be an individual who we believe can represent us both technically and				
9.				politically. We should view this assignment as an investment in the future—so we are looking for				
10.				someone who has up to ten years more to work for the Agency.				
11.				Let's work at this seriously and aggressively.				
12.								
13.				cc D/OIT Donnelly				
14.				Attachment: New York Times Article				
15.				dated 14 August 1986				

PANY NEWS

B.M. Enlists Software Aid

3-Year Study At University

By DAVID E. SANGER

Special to The New York Times

PHILADELPHIA, Aug. 13 — The International Business Machines Corporation today announced a three-year multimillion-dollar project in artificial intelligence with Carnegie-Mellon University, as part of what the company called "a major new I.B.M. initiative" in advanced software.

Under the terms of the agreement, I.B.M. will provide equipment and financing for Carnegie-Mellon researchers developing "expert systems" that attempt to simulate human reasoning and draw conclusions, along with longer-range work in speech recognition and robotics.

While I.B.M. said it would not have exclusive access to the results of the research, company executives attending the annual meeting of the American Association for Artificial Intelligence here said they expected those results would become part of I.B.M.'s future software products.

The move appears to be part of a major shift within I.B.M., which has traditionally been weak in applications software, programs that perform specific tasks for computer users. Artifical intelligence, a set of programming techniques that gen-

erally make computer systems easier to use and capable of performing many jobs without human intervention, are considered essential to that effort. They also use an extraordinary amount of computing power and memory, meaning the prospect of additional hardware sales.

'Something of an Awakening'

"There is something of an awakening under way at I.B.M.," said Raj Reddy, head of Carnegie-Mellon's robotics institute and a leading authority in artificial intelligence. "Four or five years ago, when you mentioned artificial intelligence, I.B.M. shrugged its shoulders."

I.B.M. executives here said that within the last year the company had created an artificial-intelligence project office that reports directly to, I.B.M.'s management committee, with unusually broad responsibility to integrate new techniques in I.B.M. products. In coming months, the company is expected to bring out its first commercially available expert systems, primarily programs designed for banks, insurance companies and manufacturers.

"Strategically, this is now a very high priority for us," said Herbert Schorr, who is directing I.B.M.'s artificial-intelligence initiative. "It should enable us to attract a new ser of users — like loan officers or insurance underwriters — who can retrieve facts off their computers, but get little analysis or instruction about how to apply rules."

Many artificial-intelligence products are "development tools," or programs that help computer designers prepare other programs; the use of expert systems has primarily been limited to medicine and manufacturing, although an increasing variety of such systems is coming onto the market.

Much of the most promising technology is still in university laboratories, notably at Carnegie-Mellon, the Massachusetts Institute of Technology and Stanford University. Thus, companies are forming alliances with those institutions, especially because it is relatively inexpensive to transport software from the laboratory to the marketplace.

Under the agreement announced today, I.B.M. will provide Carnegie-Mellon with about \$5.5 million in computer equipment and will negotiate contracts for individual studies in artificial intelligence. The equipment is primarily the PC/RT, an engineeering and scientific computer introduced earlier this year that I.B.M. believes particularly well suited for artificial-intelligence applications.

Two years ago I.B.M. was stung by charges that a pact with Carnegie-Mellon to help develop the PC/RT bound the university to secrecy agreements that many academics called unethical. In today's announcement, it was careful to say the project would be "open research."

"Carnegie-Mellon will own the software it develops and is free to publish whatever it wants," said John C. Daily, who heads the company's Academic Information Systems unit. "We will share in the results, but we will not have exclusive access."