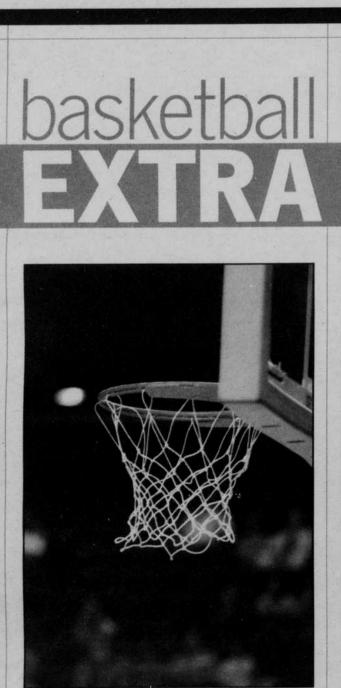
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### APPLY NOW FOR FA AND RA POSITIONS APPLICATIONS DUE 5:00 P.M. JANUARY 25

opplications available online for RAs at http://housing.uoregon.edu/studentstaff (RA candidates must have a minimum GPA of 2.5) Applications available online for FAs at for http://firstyear.uoregon.edu FA candidates must have a minimum GPA of 3.2





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**OREGON DAILY EMERALD** 

#### according to the NSF's Survey of Federal Science and Engineering Support to Universities, Colleges and

Foundation, Linton said.

universities nationwide.

5 percent of University research fund-

Other universities across the coun-

try, including Oregon State University

OSU spokesman Todd Simmons

said DoD grants accounted for 7 per-

cent of OSU's overall research budget

of \$209 million during the 2004-2005

"It hasn't been anything that's

Linton said the amount of military

funding at the University as a percent-

age of all research funding has been

relatively stable over the past 15 years,

explaining the slight spike during the

2003-2004 fiscal year as two years of

funding for the Brain, Biology and Ma-

chine Initiative administered at once.

More heavily used federal funding

sources are the National Institutes of

Health and the National Science

This funding is consistent at

During the 2003 fiscal year, the

NSF spent nearly \$4 billion on science

and engineering at universities,

while the DoD spent \$2.5 billion,

generated any controversy on this

in Corvallis, accept DoD grants.

ing over the past 40 years.

campus," Simmons said.

fiscal year.

lonprofit Institutions. However, the DoD's budget is substantially larger than that of the NSF, and it is increasing at a faster rate. According to the Budget of the United States Government, the DoD has a \$419.3 billion budget for the 2006 fiscal year, up 5 percent from 2005 and up 41 percent from 2001.

The NSF has a \$5.6 billion budget for 2006. This is an increase of 2 percent from 2005, but it is still much smaller than the DoD's budget.

get money because that's where the money is," Stahl said. "It's the same reason Willie Sutton robbed banks."

The Association of American Universities, which University President Dave Frohnmayer is on the executive committee for, includes 62 public and private research universities in the U.S. and Canada. In May 2004, the AAU Executive Committee wrote a letter to the Defense Subcommittee of the House Appropriations Committee urging the DoD to fund more research at colleges and universities.

A statement on Edugate, a Web site with information about educational programs in science, mathematics and engineering that are fully or partially sponsored by the DoD, discussed the by the U.S. Air Force. nission of DoD research grants.

"At the Department of Defense, we base our strong commitment to quality education on the realities of life." statement "Without said well-educated Americans we cannot have a well-educated military force and without such a force we cannot hope to successfully defend our nation against those who seek to diminish us and freedom. Mathematics and

to work benefit of all Americans."

and NIH funding.

"In an ideal world, the value of the support would get support," Linton said. about how the research DoD funds in question came from what he

Linton said any University research pay for is used. that is funded by the DoD could just "I'm not really against any of the as easily have been funded by the NIH projects, per se," Bogart said. "I'm or NSF, and that sometimes re- against the Defense Department searchers switch back and forth be- putting them together in a horrible tween NSF and DoD funding for the package to be used for future wars." same project based on whichever

into areas we're not already interested in at a basic level," Linton said. "It's not classified, Linton said, and it another source of funding that helps is published in publicly accessible us pursue those interests.'

Linton said DoD funding gives the University the capacity to do more research by providing equipment and research facilities. For example, Center for Neuroimaging with basic operating expenses.

"I don't make any distinction between its impact and that of NSF," Linton said. "Any time you can faculty work, they're going to be better scholars."

#### History, prevalence

Chemistry professor Tom Dyke, the battlefield. who came to the University 31 years ago and previously served as interim vice provost for research, said he conducted DoD-funded research in the early and mid-1980s, studying the structure of molecules held together by intermolecular forces such as microwaves and radio frequency light. These findings may have been applied to communications devices, he said.

Dyke said he doesn't consider the DoD grant any different from other research funding he has obtained over the years and said that faculty members should be free to pursue research funding from any source that doesn't violate University policies.

"I think it's a straightforward academic freedom issue," Dyke said. "Faculty need to be free to pursue "Most (researchers) go to DoD to teaching and research free of political pressure groups that would try to constrain that freedom.

> "After all, there are many political viewpoints in this country and many different groups that would like research to be different from what it is. Should we stop work on evolutionary theory because there are groups that don't believe?"

Three Oregon universities - the University, OSU and Portland State University - share DoD funding the core of the Army's efforts to enthrough the Oregon Nanoscience and Microtechnologies Institute.

University chemistry professor Jim Hutchison heads ONAMI's Inherently Safer Nanomaterials and Nanomanufacturing initiative, which is funded

UPCOMING MEETINGS

What: Senate members will vote on a motion to

hold public hearings about campus research

When: Thursday from 1 p.m. until 2:30 p.m.

What: A discussion on issues related to the con-

struction of an underground building for the Oregon

Nanoscience and Microtechnologies Institute on

funded by the U.S. Department of Defense

Who: Campus Planning Committee

Both meetings are open to the public.

Where: 220 Deschutes Hall

campus.

Who: University Senate

Where: FMU Fir Room

When: Today from 3 p.m. until 5 p.m.

"The outcome, I think, is going to be a really terrific option for the U of O to develop safer nanomaterials and Hutchison the report. the military is

people who

#### Applications

Linton said he does not know what source is most convenient at the time. all the applications of DoD research "It's not that the DoD is steering us at the University have been. Research conducted at the University is scientific journals, so anyone could use it for anything.

"It's a distinction between the development of fundamental knowledge and the application of it," Linton DoD funding helps the Lewis said. "How it ultimately gets used by society is not something we can really control or even predict."

Stahl said most DoD research has harmless and even beneficial short-term uses but said that even bring more funding sources to bear on trying to make the Internet faster could have homicidal implications, as soldiers might use a very fast Internet connection to control, from a safe distance, robots that kill enemies on

> "The Defense Department realizes that to control the world, which is the aim under the present administration, we need the best technology," Stahl said.

> One DoD-funded project that has come under particular scrutiny from those opposed to military research is the Brain, Biology and

"It's a distinction between the development of fundamental knowledge and the application of it. How it ultimately gets used by society is not something we can really control or even predict."

#### Machine Initiative.

"BBMI is the one that really stands out as being connected to the FCS (the U.S. Army's Future Combat Systems) program," Bogart said.

The FCS program, which Bogart named as one of his top concerns, "is sure that the Army ... will move, shoot and communicate better than ever before and better than any opponent it will face in the 21st century. according to the program's Web site.

An April 2004 University report entitled "Federal Priorities" describes some defense applications for military research conducted at the University.

Uses for knowledge obtained from the BBMI include, "optimizing the training of performance of military personnel, such as their ability to function in stressful and complex environments and to improve the integration of hunanomanufac- man and machine. Examples include turing methods developing the ability to 'lock out' unthat wouldn't desirable battle responses, or to assess a possible soldier's suitability to particular military without that tasks involving aspects such as attenf u n d i n g , " tion, decision making, emotion, memo-Hutchison said. ry and communication," according to

said that in his Stahl said the BBMI might use its work with the biology component to find the genes Air Force, he that cause emotions and block the has learned that expression of those genes.

"We'll get rational treatments an organization for sympathy so soldiers don't with a lot of sympathize with the enemy," Stahl said. Michael Posner, psychology science skills are, therefore, vital need the same things that civilians professor emeritus and BBMI coordibuilding blocks of our democracy, and need, such as medicine, clothing and nator, said he wasn't aware of the the food, and that his contacts at the Air Federal Priorities report until people Force research labs care about the im- opposed to military research brought Linton said DoD funding is often pact of their materials on the the claim about locking out undesirmore reliable for researchers than NSF environment and on human health. able battle responses to his attention. He spent a weekend going through every paper he'd ever written about NSF and NIH would be recognized at a Bogart, the peace studies graduate the BBMI searching for the sentence level where projects worthy of student, said he's most concerned and then discovered that the sentence

department in 1998.

work very well," Posner said.

Posner said that to his knowledge, recipients of DoD grants are not required to submit any documents about possible defense applications of their projects. Posner also said that using knowl-

likely in the near future.

genetics actually works," Posner said. The Budget of the U.S Government, available online at www.gpoaccess.gov/usbudget, said the DoD's research efforts include technologies - such as improved camouflage that stands up to harsh conditions — that can help military personnel do their jobs safely and more effectively. Projects also include detectors for improvised explosive devices, chemical and biological agents, radioactive materials, aerial sensors and hypervelocity missiles. Improving communications is also

"The 2006 Budget supports

RICH LINTON | Vice President for Research and Graduate Studies

## Military: Department of Defense allotted \$419.3 billion budget for 2006

lescribed as a document produced substantial investments in advanced

"It is kind of an offensive sentence, but it doesn't really describe the

Boyd, the University's federal affairs director, wrote in an e-mail that the Federal Priorities report is prepared by the University's Office of Public and Government Affairs in consultation with senior University staff, and that the BBMI description in the 2004 report included some language, such as the phrase "lock out," that predates Linton and the current government relations staff.

edge of genetics to prevent people from experiencing emotions is not "It doesn't seem like the way

one of the department's goals.

by the University's public relations technology to provide advantages over our enemies, particularly in remote sensing and high-performance computing. U.S. intelligence capabilities are employing advanced technology systems to exploit. process, and produce information from enemy signals, imager, and human and other sources," the budget said. "These developments are improving our ability to detect and counter the broad range of threats facing the United States. reaping benefits for both U.S. forces and homeland security."

> Stahl said that while administrators at universities are aware of the uses of military research, many of the researchers themselves are not aware, or choose to do the research anyway to improve their status in the scientific community or increase their salaries.

> "I think they just don't face it, face the degree to which the American military is the world's greatest threat to peace," Stahl said.

#### **Options for the future**

Keyes said that as far as the University Senate is concerned, military research may be part of a larger issue of externally funded research. For example, some schools that accept research funding from pharmaceutical companies have found this to be a problem.

Keves said he doesn't know if the University Senate has the power to make University researchers stop accepting DoD funding.

"There are certainly faculty members who would be very upset with

Chris Minson, an associate professor of human physiology, left, helps Gregg McCord, graduate student in human physiology, prepare for a onstration of the University's new environmental chamber, which was funded in part by the U.S. Department of Defense.

other faculty members telling them what kind of research they could do funding is impossible to escape. and what kind of funding they could accept," Keyes said.

doing military research, it would not have a noticeable impact on the military unless it started a trend and other universities also quit doing military research.

"To what extent does the U of O positive ways." want to be complicit in illegal military aggression?" Stahl said.

should isolate ourselves from national security and other interests in Stahl said if the University quit anything that connects to the military the short term, a long-term is not feasible and probably not solution to global problems desirable," Linton said. "The further will require the sort of understanding we're isolated and divided from and knowledge that comes from the huthe military, the less opportunity we have to impact on it in

> Linton said that the country must make decisions about priorities

Linton said the issue of military from an informed perspective. While funding science and technology "To think that we can and to thwart terrorists will protect manities disciplines, Linton said.

> Contact the business, science and technology reporter at esylwester@dailyemerald.com

> > a i

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