컴퓨터과학과의 현실

백윤철
상명대학교 컴퓨터과학과

이상적인 선순환 구조

취업 →

최소한의 입사교육

의미있는 캡스톤

공동연구개발

인턴십 →

수익창출

충분한 실습 ←

교육지원

충실한 기본 커리큘럼 ←

재교육
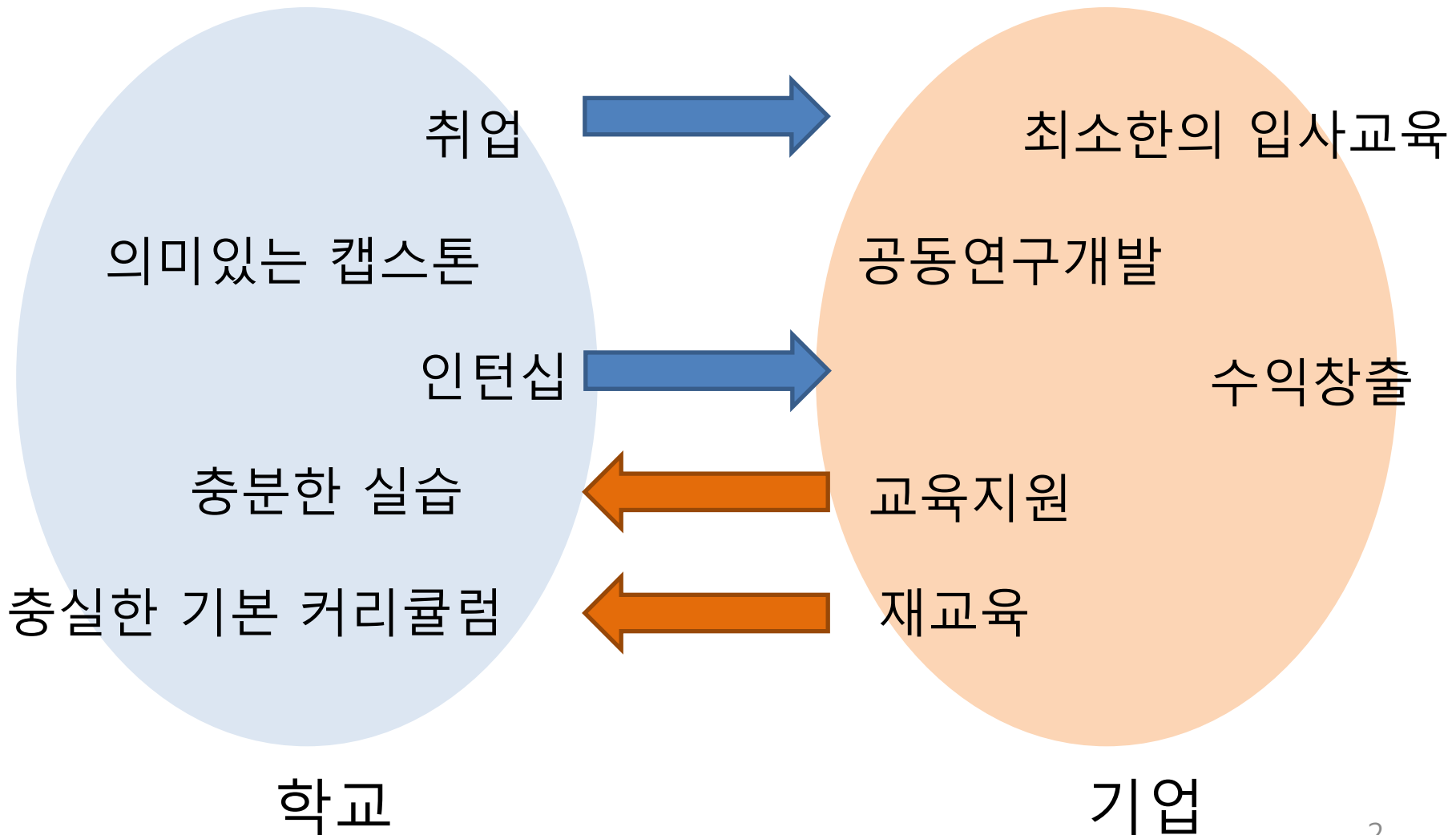
학교

기업

산업단지 캠퍼스

- 전 대학이 산업단지로?
- 산업단지 학과는 캠퍼스인가? (교육부)
- 산학협력선도대학사업(LINC) 수도권 추진 현황 – 지역 밀착을 찾아보기 어려움
- 산학이 모여있어 가능한 시너지를 중시할 필요

커리큘럼과 수업

- 대부분의 대학 컴퓨터과학과는 ACM과 IEEE Computer Society의 CS Curricula를 활용 + 컴퓨터정보기술교육인증
- 절대적으로 적은 학점 수 배분
  - 대학 재정 악화, ACE 사업, 특성화 사업
- 산업체 겸임교원, 강사활용
  - 전임교원으로 count되지 않음, 대학구조개혁 평가

비교과 활동

- 인턴십
  - 학점인정
- 창업
  - 학점인정?
  - 창업휴학?
- 공모전, 경진대회
  - 시간과 노력을 요구하는 활동
- 휴학-> 재학생 충원률, 대학구조개혁평가

그럼에도 불구하고

- 서울 S대 CS학과
  - 80여명입학
  - 70% 취업률
    - 30% 대기업
    - 20% 소프트웨어 개발 기업
    - 30% 서비스기업
    - 기타
  - 학원의 역할
    - S기업 취업전문학원
    - B 청년취업아카데미
    - 군휴학 복학생

결언

- 학교와 기업의 경계를 모두 <u>자유롭게</u> 넘나들 수 있어야 이상적인 선순환이 이루어짐
- 상상
  - 테크노밸리 연합 대학교/대학원
- 첨언

Most and Least Recommended Majors (Full List)

Take some advice from wise college graduates. Find out which alumni recommend their majors and which ones wish they had studied something else. [read more]

Search this list:

LIST · CHART

Rank	Major	% Recommend ▼
1	Supply Chain Management	92%
2	Computer Engineering (CE)	91%
2	Software Engineering	91%
4	Mechanical Engineering (ME)	90%
5	Computer Science (CS) & Engineering	89%
5	Chemical Engineering	89%
5	Operations & Supply Chain Management	89%
5	Applied Mathematics	89%
9	Electrical & Computer Engineering (ECE)	88%
9	Actuarial Mathematics	88%
9	Electrical Engineering (EE)	88%
9	Business Management & Human Resources Management (HRM)	88%
9	Computer Science (CS) & Mathematics	88%
9	Computer Science (CS)	88%
15	Occupational Health and Safety	87%
15	Industrial Engineering (IE)	87%
15	Architectural Engineering	87%

Bachelor's Degrees by Salary Potential (Full List)

Major has an even bigger impact on future earnings than choice of school. Find out which majors pay you back, and which make it hard to pay back student loans. [read more]

Search this list:

LIST   CHART

Rank	Major	Early Career Salary	Mid-Career Salary
1	Petroleum Engineering	$102,300	$176,300
2	Actuarial Mathematics	$60,800	$119,600
3	Nuclear Engineering	$67,000	$118,800
4	Chemical Engineering	$69,600	$116,700
5	Electronics & Communications Engineering	$64,100	$113,200
6	Electrical & Computer Engineering (ECE)	$66,500	$113,000
7	Computer Science (CS) & Engineering	$66,700	$112,600
8	Computer Engineering (CE)	$67,300	$108,600
9	Aerospace Engineering	$64,700	$107,900
9	Electrical Engineering (EE)	$65,900	$107,900
11	Materials Science & Engineering	$64,000	$105,100
11	Physics	$57,200	$105,100
13	Computer Science (CS)	$61,600	$103,600
14	Statistics	$54,900	$103,100
15	Mechanical Engineering (ME)	$62,100	$101,600
16	Computer Science (CS) & Mathematics	$63,200	$101,400
17	Software Engineering	$61,700	$99,800

9

Best Schools by Salary Potential for Computer Science Majors (Full List)

Earn a computer science degree from a school with the highest paid graduates. Learn more about the best universities for earning a bachelor's degree in computer science studies by salary. [read more]

Search this list:

Compare Schools

:≡ LIST .ıl. CHART

Rank	School Name	Early Career Salary	Mid-Career Salary
☐ 1	Stanford University	$97,100	$146,200
☐ 2	University of California - Berkeley	$95,200	$144,200
☐ 3	California Polytechnic State University (CalPoly) - San Luis Obispo	$68,200	$133,200
☐ 4	CUNY - Brooklyn College	$53,700	$132,300
☐ 5	Southern Polytechnic State University	$45,900	$128,500
☐ 6	University of California - Irvine (UCI)	$67,600	$126,600
☐ 7	California State University - Northridge (CSUN)	$57,600	$124,600
☐ 7	Western Washington University	$61,500	$124,600
☐ 9	California State University - East Bay (CSUEB)	$59,800	$124,500
☐ 10	San Jose State University (SJSU)	$68,800	$123,900
☐ 11	Virginia Polytechnic Institute and State University (Virginia Tech)	$73,100	$123,600
☐ 12	University of Southern California (USC)	$70,400	$123,500
☐ 13	Massachusetts Institute of Technology (MIT)	$88,200	$123,000
☐ 14	University of California - Davis (UC Davis)	$83,100	$122,100
☐ 15	Boston College	$77,000	$121,600

10