

## **Atta Deep Bhav!**

*Jun 15<sup>th</sup>, 2001  
USA*

Dear Friends,  
Jai Bheem.

“Atta Deep Bhav!” is a new monthly news article starting from May 15<sup>th</sup> 2001 and will come to you every 15<sup>th</sup> day of the month. As the name means, “Be Thy Own Light!” this is the article for Indian Buddhist students who are willing to follow the path of “Atta Deep Bhav!” in life. We are pleased and honored to start this article for the following objectives.

### **Objectives:**

*To encourage as many Indian Buddhist students as possible, to get a good job in the United States of America and overseas.*

*To give them an overview of the trends around and the coming opportunities.*

To achieve these objectives, we have an earnest and sincere desire to give correct, complete and very useful information about the current career trends in any field, mainly focussing on Computer and Information Technology.

### **First few Lines from our Desk...**

To every single Buddhist student in India, we wish to convey through this article that though we work here, very far from India, we care for you all. We will do our best possible to provide you with good information. But one very important thing you all need to keep in mind: It is you who should take a deep and enthusiastic interest to make your own individual career dreams true. It is you who needs to strive hard to achieve success.

Finally, with the thought that the heart of every Buddhist student will beat in sympathy for every other Buddhist student and with the hope that you will share this information with as many Buddhist students as possible.

Depending upon the suggestions and response from the readers, we are wholeheartedly open for making changes but within the framework of making this article a powerful source of right career related information for Indian Buddhist students.

With much Metta,  
Sachin Kasbe  
Pankaj Meshram  
Ajit Nandagawali

### **Contacts:**

For any help, detailed information about any news, you can, without slightest hesitation, contact the following:

Sachin Kasbe  
421 Van Buren Ave. North  
Apt. # 129,  
Hopkins, Minneapolis  
Minnesota – 55343  
USA  
Phone: +1-952-933-3781  
Email: [sachin\\_kasbe@yahoo.com](mailto:sachin_kasbe@yahoo.com)

Pankaj Meshram  
2727 Nelson Road  
Apt. # O-201,  
Longmont  
Colorado – 80503  
USA  
+1-720-652-0187  
[pankaj\\_meshram@yahoo.com](mailto:pankaj_meshram@yahoo.com)

Ajit Nandagawali  
860 Robbie View  
Apt. # 1012  
Colorado Springs  
Colorado – 80920  
USA  
+1-719-535-8966  
[anadagawali@yahoo.com](mailto:anadagawali@yahoo.com)

## Atta Deep Bhav!

### Thus Spoke Ambedkar:

“Every Student should have a high aim in life. Failing is not a crime but having low aim can be called a crime.”

*Dr. B. R. Ambedkar*

### Computer and IT News and new developments:

There are more than a million good reasons to consider a career in the Information Technology (IT) industry today.

### **Based upon study conducted by Information Technology Association of America (ITAA):**

This study was conducted on April 2001. This also includes the workforce required by IT Industry to support the Non IT Industry to become more competitive and closer to customers through the use of Information Technology to survive in the IT dependant market. Below is synopsis of the report. (For more information please visit: <http://www.ita.org>)

#### **1. The overall size of the IT workforce:**

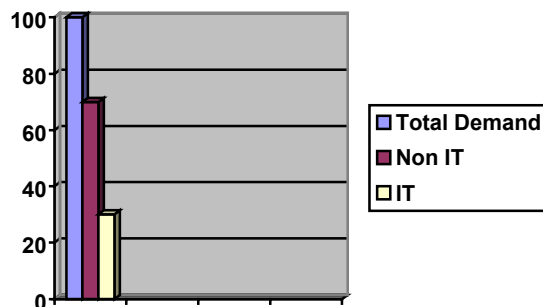
Total Workforce Needed:	Approximately <b>1.4 million</b>
Workforce for supporting Non IT sector:	About <b>1.0 million</b>
Established IT firms:	About <b>0.4 million</b>

The following bar graph shows the IT demand for Non IT and IT sector for the year 2001. Important thing to notice is that ITAA study says that industry today is mature enough to survive one economically bad year.

*The first bar shows: Total Demand for IT Field (100%).*

*The second bar shows: Demand in IT for Non-IT sectors (70%).*

*The third bar shows: Demand for IT sectors (30%).*



The bar graph below shows the increase in jobs compared to last year in Technical Support, Web Development and Database Development area. It is clear from this graph that more workforce will be required in these areas as the increase is from almost 5 to 12 times. What is required to be in this area of increase is to acquire the basic knowledge related to these areas and develop interests to work in this area.

For Technical Support the increase is almost 5 times.  
 For Web Development the increase is almost 6 times.  
 For Database Development the increase is almost 12 times.



**Basic Skill sets and IT areas:**

The following table describes the basic Skill set required in different areas within IT. Strong Aptitude ability is always desirable. We will recommend that one should develop that, simultaneously with acquisition of technical knowledge.

<i>IT Field</i>	<i>Basic Skill Set</i>
Network Design	NT Workstation/Server, SMS, UNIX, Exchange, TCP/IP, NetWare
Messaging Design	Exchange, Notes, GroupWise
Database Design	SQL/Server, Oracle, Informix, MS Access, PL/SQL
Windows NT Apps Development	VB, VC++, OLE, COM/DCOM, CORBA, ATL, WTL
Internet/Intranet Apps Development	IIS, IE, ASP, VB script, VJ++, UNIX, Java, JSP, HTML, J2EE, EJB, JDBC
Cobol Programmers	Cobol, MVS, JCL, CICS , DB2, CICS
System Programmers	C/TAL, Tandem, TCP/IP, Bi-sync3270, x25, SNA, Real Time Embedded Systems, PCS, WAP, Assembly.
Games Programming	OpenGL, DirectX, C++, Console experience, Titles shipped
AS 400 programmers	AS 400
Real Time Programmers	Client/Server, UNIX/NT, C++, Real Time, Server Cluster, RTOS( Real Time OS like UNIX)
Embedded Programmer	VxWorks, PSOS, Embedded Programming
SAP Programmer	SAP, People Soft, Oracle Financial
Wireless/Telecom/Voice Programmers	WAP, TCP/IP, SNMP, Windows-CE, ATM, Datacom, Sonet, Fiber Optics, Firmware, VxWorks, PSOS
Others	C++, C, VC++, OLE, ADO, OLE DB, COM, MTS, XML, SOAP, .NET, Object Oriented Programming
Designing and Architecture	Object Oriented Methodology and Design. Booch Model, UML, Rational Rose
QA/Test Engineers	QA Process. Quality Module. Test Cases. Various kind of testing. SMM Knowledge

**Important Information:**

1. <http://www.jobserve.co.uk>

This site gives info about UK jobs. On this site you will find many IT companies putting their requirements. Every single skill is likely to find some opportunity here. Every job seeker should float his CV on this site. This is particularly important as UK is becoming big market for IT field from both consumer and supporter point of view.

2. <http://www.jobsireland.com>

This web site offers a wide range of job vacancies in Ireland. It is unique site for Ireland. In Ireland salaries are very good, even better than UK. All your questions regarding Visa, Taxation, Education etc shall find answer here. Find out more for yourself from this site.

3. <http://www.monster.com>

This site can be useful for jobs in California especially in Silicon Valley area. But the same company has sites in Australia, Belgium, Canada, United Kingdom, Denmark, Hong-Kong, France, New Zealand, Singapore and India. This is really very useful site. You can search for hot jobs here with some key words and also can post your Resumes here.

4. <http://www.brassring.com>

This is very similar to the above site. You can post your Resume here, have different covering letters for different types of jobs or companies. You can search for jobs here with key words. You can also have some career guidance on this site.

**Important Announcement:**

From this issue onwards, we will introduce a mid month issue (which will come to you on every 30/31 of the month) which will have Technical Question Papers. The questions in these papers may appear for various Software Companies in India. So look out for this and make maximum benefit out of this information.

**Fundamentals of Computers:**

In this issue of “Atta Deep Bhav!” we are giving a basic test paper about Computer Fundamentals. This test paper contains 30 questions and each question has 5 or 4 options to choose from as an answer. Correct answers to these questions are also given below. Please try to solve the question paper for yourself first and then by comparing with correct answers make note of your score. Check the wrong answers you scored and make it correct. (Some basic knowledge about the Computers is assumed. More than one correct answer is possible.)

**Q1.** Which of these descriptions of computer is True?

- A) High capacity storage device                      B) Programmable electronic machine  
C) A very fast access calculator                    D) Information processor  
E) Computes complex equations

**Q2.** An Energy Star Complaint monitor

- A) Is the same as other models but uses slightly less power  
B) Consumes less power than other models when it is powering up

- C) Switches itself off into low power states when the input signal does not change for a determined time interval
- D) Should only be used on more expensive computers
- E) None of the above

**Q3.** Which of these statements about Hard Disk is correct?

- A) Hard disk is the memory of the computer.
- B) Hard disk is permanent storage.
- C) Hard disk is static memory.
- D) Hard disk is non-volatile storage on a computer.
- E) None of the above

**Q4.** A common feature of the Hard Disk Drive is:

- A) Laser is used to record data on the surface on the disk
- B) The disk spins at 6300rpm
- C) The read/write heads stay in physical contact with the disk surface at all times
- D) The disk unit is airtight sealed
- E) None of the above

**Q5.** What answer choice best describes “Software”?

- A) Something that comes on a floppy diskette.
- B) A coded set of instructions
- C) Controls the hardware
- D) A coded set of instructions and / or data
- E) None of the above

**Q6.** Peripheral devices like printers

- A) Should be powered on before the computer system
- B) Should be powered on after the computer system
- C) Can be connected to the computer system with power already turned on
- D) Should be turned off before the computer is turned off
- E) Does not matter

**Q7.** Which of the following is / are both “input and output” device(s)?

- A) Keyboard
- B) Mouse
- C) Monitor
- D) Floppy Drive
- E) Hard Disk Drive

**Q8.** Which Operating System is recommended on a home PC?

- A) Linux
- B) Windows NT Server
- C) Windows 98
- D) Novell NetWare 5.0
- E) MS DOS 5.0

**Q9.** Data Transfer rate of a double speed CDROM is

- A) 600 Kb/sec
- B) 300 Kb/sec
- C) 144 Mb/sec
- D) 1.2 Mb/sec

**Q10.** A computer system is assembled. On power-up, no screen image is displayed. Which of the following quick checks is “Pointless” (not worth doing) in determining if the computer appears to be working (assume IBM-PC compatible type computer)

- A) Check the keyboard lights to see if they flicker on power-up
- B) Watch the floppy drive lights to see if they come on
- C) Listen to see if the speaker sounds on power-up
- D) Check to see if the initial bios power-up message is displayed
- E) Do not know

**Q11.** A floppy drive rotates at which speed

- A) 3600 RPM
- B) 630 RPM
- C) 360 RPM
- D) 6300 RPM
- E) None of the above

**Q12.** What is the basic unit of information in a computer?  
A) Word                      B) A Bit                      C) A Byte  
D) A Nibble                  E) A Sector

**Q13.** Screen burnout occurs when  
A) The screen suffers from an electrical fire  
B) Is damage caused to the inside surface of the screen?  
C) Is restricted to IBM PC compatibles  
D) Is more common on VGA monitors  
E) None of the above

**Q14.** Which of the following methods helps prevent screen burnout  
A) Burn the brightness up and the contrast down a little  
B) Leaving the monitor and computer switched on over the weekend  
C) Using a screen saver program  
D) Only using text mode applications instead of graphics applications  
E) None of the above

**Q15.** A Byte is 8 bits. How much is one Mega Bytes?  
A) 1000000 Bits              B) 1000 Kilo Bytes              C) 1048756 Bytes  
D) 8388608 Bits              E) 1048576 Bits

**Q16.** Which of these is the most powerful microprocessor?  
A) Zilog Z80                  B) Intel Pentium III - 600 MHz                  C) Intel 80486 - 750 MHz  
D) Compaq Alpha - 1000 MHz                  E) AMD K-6 300 MHz

**Q17.** Which of the following should be done while handling diskettes?  
A) Place the diskette next to a magnetic field  
B) Write on the diskette using a softball pen  
C) Spill coffee on the diskette  
D) Eject the diskette from the drive when the drive light is on  
E) Wear gloves to avoid static electricity

**Q18.** What best describes “System Software”?  
A) A software to run a business systematically  
B) A software to facilitate orderly execution of other programs  
C) A software that controls the hardware  
D) Any software that has been written systematically  
E) None of the above

**Q19.** Which of these could be called the brain of the computer?  
A) Hard Disk                  B) Random Access Memory (RAM)                  C) Microprocessor  
D) Operating System        E) Central Processing Unit

**Q20.** What answer choice best describes “Computer Hardware”?  
A) Stuff that you can hit kicks or drop on your toe.  
B) A processing unit with input & output devices  
C) Monitor, Keyboard, Mouse and Hard Disk  
D) Microprocessor  
E) A computer made of hard metal



**Q29.** Speed of a computer is measured in

- A) Instructions per second                      B) Kilobytes per second                      C) Megahertz  
D) Megabytes per second                      E) Gigabytes per second

**Q30.** Could Hard Disk substitute for RAM?

- A) No it cannot.                      B) Yes it can.  
C) Yes it could but processing speed will become very slow.  
D) No, it cannot, because hard disk size is 2 GB or more while the RAM in the computer is only around 64 MB normally.  
E) None of the above

Dear Friends,

We will try to give, as much information as possible but our basic intention is not just to give the source of information but to help you to make use of the information to shape your career. We also want to thank Mr. Niranjana Waghmare for his valuable contribution towards this issue. We hope that you will work on this information and try to build your destiny. All the Best!

Thanks and Regards,

Pankaj Meshram  
Sachin Kasbe  
Ajit Nandagawali

Date: Jun 15<sup>th</sup>, 2001  
Place: USA

**Answers:**

- |       |  |          |       |
|-------|--|----------|-------|
| 1) B  | 2) C   | 3) D     | 4) D  |
| 5) D  | 6) A   | 7) D, E  | 8) C  |
| 9) B  | 10) D  | 11) C    | 12) B |
| 13) B | 14) C  | 15) D    | 16) D |
| 17) B | 18) B  | 19) C    | 20) B |
| 21) A | 22) C  | 23) B, C | 24) C |
| 25) A | 26) 1-F, 2-I, 3-E, 4-C, 5-D,<br>6-B, 7-H, 8-J, 9-G, 10-A |          |       |
| 27) C | 28) C  | 29) C    | 30) C |